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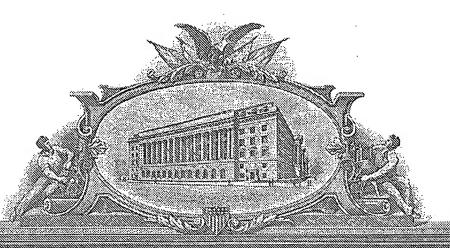
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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

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CRYSTAL STRUCTURE OF HUMAN α-GALACTOSIDASE

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Field of the Invention

This invention relates to the X-ray crystal structure of the human α -galactosidase glycoprotein. More specifically, the invention relates to crystallized compositions of human α -galactosidase and to crystallized complexes of human α -galactosidase and its catalytic product α -galactose. The invention further relates to a computer programmed with the structure coordinates of the human α -galactosidase's active site wherein said computer is capable of displaying a three-dimensional representation of that active site. The invention also relates to methods for rational drug design based on the structural data for human α -galactosidase provided on computer readable media, as analyzed on a computer system having suitable computer algorithms.

Background of the Invention

The lysosomal enzyme α-galactosidase (α-GAL or α-Gal A, E.C. 3.2.1.22, SEQ ID NO:2) 'catalyzes the removal of galactose from oligosaccharides, glycoproteins, and glycolipids during the catabolism of macromolecules (FIG. 5a). Deficiencies in lysosomal enzymes lead to the accumulation of substrates in the tissues, conditions known as lysosomal storage diseases. In humans, the absence of functional \alpha-GAL leads to the accumulation of galactosylated substrates (primarily globotriaosylceramide, FIG. 5b) in the tissues, leading to Fabry disease, an X-linked recessive disorder first described in 1898 (Fabry, J. Arch. Dermatol. Syph., 1898, 43:187) characterized by chronic pain, ocular opacities, liver and kidney impairment, skin lesions, vascular deterioration and/or cardiac deficiencies (Brady, R. O., et al., N. Engl. J. Med., 1967, 276:1163-7; Desnick, R. J., et al., In The Metabolic and Molecular Bases of Inherited Disease 8th edit. -Scriver, C. R., Beaudet, A. L., Sly, W. S. & Valle, D., eds.-, 2001, pp. 3733-3774. McGraw-Hill, New York). Recombinant human α-GAL has the ability to restore enzyme function in patients (Schiffmann, R., et al., JAMA, 2001, 285:2743-9; Eng, C. M., et al., N. Engl. J. Med., 2001, 345:9-16), and enzyme replacement therapy using α-GAL was recently approved in the United States as a treatment for Fabry disease. α-GAL became the second recombinant protein approved for the treatment of a lysosomal storage disorder (after \beta-glucosidase, a treatment for Gaucher disease - Beutler, E. & Grabowski, G. A., 2001, Gaucher Disease. In *The Metabolic and Molecular Bases of Inherited Disease* 8th edit. -Scriver, C. R., Beaudet, A. L., Sly, W. S. & Valle, D., eds.-McGraw-Hill, New York), and α -GAL represents one of a small number of recombinant human proteins approved for the treatment of any disease. A second treatment for Fabry disease (specific for the cardiac variant of the disease) uses galactose infusion, which presumably helps stabilize the mutant α -GAL protein (Frustaci, A., et al., *N. Engl. J. Med.*, 2001, 345:25-32). In addition to enzyme replacement therapy and galactose infusion, gene replacement therapy using the α -GAL gene shows potential as a treatment for Fabry disease (Park, J., et al., *Proc Natl Acad Sci U S A*, 2003, 100:3450-4).

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There are currently two recombinant glycoprotein products, REPLAGALTM (Transkaryotic Therapies, Inc., Cambridge, MA) and FABRAZYMETM (Genzyme, Inc., Cambridge, MA), available for enzyme replacement therapy used in the treatment of Fabry disease (Schiffmann, R., et al., *JAMA*, 2001, 285:2743-9; Eng, C. M., et al., *N. Engl. J. Med.*, 2001, 345:9-16). These two glycoproteins have identical amino acid sequences but are produced in different cell lines, resulting in different glycosylation at the N-linked carbohydrate attachment sites. REPLAGALTM is produced in a genetically engineered human cell line, while FABRAZYMETM is produced in a Chinese hamster ovary (CHO) cell line. REPLAGALTM contains a greater amount of complex carbohydrate while Fabrazyme contains a higher fraction of sialylated and phosphorylated carbohydrate (Lee, K., et al., *Glycobiology*, 2003, 13:305-13). Because the polypeptide sequence of the two glycoproteins is identical, these differences in carbohydrate composition are solely responsible for the differences in tissue distribution and dose response of the two enzyme replacement therapies.

α-GAL has also attracted attention for its ability to convert human blood group antigens. Recombinant α-GAL has been used to convert blood of type B into blood of type O, the universal donor type (Zhu, A., et al., Arch. Biochem. Biophys., 1996, 327:324-9), a process currently in clinical trials.

Because of its utility in the treatment of Fabry disease and as a reagent for converting human blood types, much effort has been put into the expression and purification of large amounts of human α-GAL. The endogenous enzyme has been purified from human placenta (Mayes, J. S. & Beutler, E., *Biochim Biophys Acta*, 1977, 484:408-16), liver cells (Dean, K. J. & Sweeley, C. C., *J Biol Chem*, 1979, 254:9994-10000), spleen cells and plasma (Bishop, D. F. & Desnick, R. J., *J Biol Chem*, 1981, 256:1307-16), and fibroblasts (Lemansky, P., et al., *J Biol Chem*, 1987, 262:2062-5); recombinant enzyme has been produced in *E. coli* bacterial

cells (Hantzopoulos, P. A. & Calhoun, D. H., *Gene*, 1987, 57:159-69), COS monkey cells (Tsuji, S., et al., *Eur J Biochem*, 1987, 165:275-80), CHO cells (Ioannou, Y. A., et al., *J Cell Biol*, 1992, 119:1137-50), baculovirus-infected Sf9 insect cells (Coppola, G., et al., *Gene*, 1994, 144:197-203; Chen, Y., et al., *Protein Expr Purif*, 2000, 20:228-36), *Pichia pastoris* yeast cells (Chen, Y., et al., *Protein Expr Purif*, 2000, 20:472-84), transduced human bone marrow cells (Takenaka, T., et al., *Exp Hematol* 1999, 27:1149-59), and continuously cultured genetically engineered human fibroblasts (Schiffmann, R., et al., *JAMA*, 2001, 285:2743-9). Despite the ability to successfully express and purify human α-GAL since 1977, the three-dimensional structure has not been solved, although a crystallization report appeared in 1994 (Murali, R., et al., *J. Mol. Biol.* 239:578-80). Structural analysis has been hindered by the heterogeneous carbohydrates on the glycoprotein, which comprise 5-15% of the mass of the secreted material and contain over 70 different species built upon 23 different core structures (Matsuura, F., et al., *Glycobiology* 1998, 8:329-39).

Thus, there is a great need to solve the crystal structure of α -GAL and, in particular, to delineate the active site of the enzyme. With this information, computer models of this active/binding site can be created and potential agonists and antagonists of α -GAL can be rationally designed.

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Summary of the Invention

This invention provides the crystal structure of human α -GAL. The crystal structure has been solved by X-ray crystallography to a resolution of 3.25 Å. Based upon the crystal structure we have characterized human α -GAL in detail and identified the key amino acid residues that make up the active/binding site of the enzyme. These coordinates are useful in methods for designing agonists and antagonists of the enzyme, which in turn may be useful in treating Fabry and other diseases.

The invention also provides the X-ray structure coordinates of a complex comprising α -GAL and its catalytic product, α -galactose.

In another aspect the invention provides a computer programmed with the coordinates of the human α -GAL active/binding site, and with a program capable of converting those coordinates into a three-dimensional representation of the active site on a display connected to the computer.

In a further aspect, the invention provides a computer which, when programmed with at least a portion of the structural coordinates of human α -GAL and an X-ray diffraction data

set of a different molecule or molecular complex, performs a Fourier transform of these structural coordinates of the human α -GAL coordinates and then processes the X-ray diffraction data into structure coordinates of the different molecule or molecular complex via the process of molecular replacement.

These and other objects of the invention will be described in further detail in connection with the detailed description of the invention.

Brief Description of the Sequences

SEQ ID NO:1 is the nucleotide sequence of the human α -GAL cDNA.

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SEQ ID NO:2 is the predicted amino acid sequence of the translation product of human α -GAL cDNA (SEQ ID NO:1).

Brief Description of the Drawings

- FIG. 1 (pp. 1-82) lists the atomic structure coordinates for human α -GAL as derived by X-ray diffraction from a crystal of human α -GAL dimer. The following abbreviations are used in FIG. 1: "Atom type" refers to the element whose coordinates are measured. The first letter in the column defines the element.
 - "X, Y, Z" crystallographically define the atomic position of the element measured.
 - "OCC" is an occupancy factor that refers to the fraction of the molecules in which each atom occupies the position specified by the coordinates. A value of "1" indicates that each atom has the same conformation, i.e., the same position, in all molecules of the crystal.
 - "B" is a thermal factor that measures movement of the atom around its atomic center.
 - FIG. 2 shows a diagram of a computer used to generate a three-dimensional graphical representation of a molecule or molecular complex according to this invention.
 - FIG. 3 shows a cross section of a magnetic storage medium.
 - FIG. 4 shows a cross section of an optically-readable data storage medium.
 - FIG. 5 is a schematic showing the reaction catalyzed by α -GAL; FIG. 5(a) the general reaction of α -GAL; FIG. 5 (b) α -GAL and Fabry disease.
- FIG. 6 depicts a stereo ribbon diagram of the overall fold of: (a) the α -GAL monomer; (b) and (c) the α -GAL dimer (two views); (d) the surface of α -GAL.
- FIG. 7 is a phylogeny tree depicting the evolutionary relationships in the α -GAL/ α -NAGAL family.

FIG. 8 depicts electron density maps showing the active site of human α -GAL from (a) native and (b) galactose-soaked crystals; FIG. 8 (c) shows the superimposed active sites of human α -GAL (green), and chicken α -NAGAL (yellow).

FIG. 9 depicts the N-linked carbohydrate attached to N192 of human α -GAL is shown with helix α 4. Electron density from a σ_A -weighted simulated annealing composite omit map (grey) is contoured at 1.1 σ . Five sugar residues have been built into the electron density at this site.

FIG. 10 is a schematic representation of the human α -GAL active site with a galactose molecule.

Detailed Description of the Invention

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As mentioned above, we have solved the three-dimensional X-ray crystal structure of human α -galactosidase. The atomic coordinate data is presented in FIG. 1.

In order to use the structure coordinates generated for the human α -galactosidase, its active site or portions or homologues thereof, it is often times necessary to convert them into a three-dimensional shape. This is achieved through the use of commercially available software that is capable of generating three-dimensional graphical representations of molecules or portions thereof from a set of structure coordinates.

An "active site", also referred to as "binding site" elsewhere herein, is of significant utility in fields such as drug discovery. The association of natural ligands or substrates with the active site(s) (or "binding pocket") of their corresponding receptors or enzymes is the basis of many biological mechanisms of action. Similarly, many drugs exert their biological effects through association with the binding pockets of receptors and enzymes. Such associations may occur with all or any parts of the binding pocket. An understanding of such associations will help lead to the design of drugs having more favorable associations with their target receptor or enzyme, and thus, improved biological effects. Therefore, this information is valuable in designing potential agonists and antagonists of the binding sites of biologically important targets.

The term "active site" (or "binding pocket"), as used herein, refers to a specific region of an enzyme, that, as a result of its shape, favorably associates with its substrate and catalysis occurs.

We have identified at least one active site per monomer in human α -GAL, which is a good target for designing agonists and/or antagonists and/or inhibitors.

The terms " α -GAL-like binding pocket", as used herein, refers to a portion of a molecule or molecular complex whose shape is sufficiently similar to the human α -GAL binding pocket, so as to bind common ligands. These commonalties of shape are defined by a root mean square deviation from the structure coordinates of the backbone atoms of the amino acids that make up these binding pockets in the human α -GAL structure (as set forth in FIG. 1) of not more than 1.5 Å. The method of performing this calculation is described below.

The x-ray structure reveals human α-GAL as a homodimeric glycoprotein with each monomer composed of two domains, a $(\beta/\alpha)_8$ domain containing the active site and a Cterminal domain containing eight antiparallel \beta strands on two sheets in a \beta sandwich (FIG. 6a). After removal of the 31 residue signal sequence, the first domain extends from residues 32 to 330 and contains the active site formed by the C-terminal ends of the β strands at the center of barrel, a typical location for the active site in $(\beta/\alpha)_8$ domains. The second domain, comprised of residues 331 to 429, packs against the first with an extensive interface, burying 2500 Å² of surface area within one monomer. The dimer has overall protein dimensions of approximately 75 x 75 x 50Å (FIG. 6b). The molecule is concave in the third dimension and varies in thickness from approximately 20 to 50Å (FIG. 6c). Electron density is visible for 390 and 391 amino acid residues (out of 398 total) in the two copies of the monomer in the crystallographic asymmetric unit; the missing residues occur at the C-terminus. The two monomers pack with an interface that extends the 75Å width of the dimer and buries 2200 Å² of surface area. In the dimer interface, 30 residues from each monomer contribute to the interface, from loops $\beta 1-\alpha 1$, $\beta 6-\alpha 6$, $\beta 7-\alpha 7$, $\beta 8-\alpha 8$, $\beta 11-\beta 12$, and $\beta 15-\beta 16$. The dimer is markedly negatively charged, as seen in a surface electrostatic potential (FIG. 6d). With 47 carboxylate groups and only 36 basic residues in the 398 residues in the molecule, the overall charge per monomer is expected to be -11 at neutral pH. The carboxylates are most concentrated around the active site, but in the low pH of the lysosome, many of these groups become protonated, reducing the charge on the molecule. In addition to the negative charges on the protein, the N-linked carbohydrate is highly phosphorylated and sialylated (Lee, K., et al., Glycobiology, 2003, 13:305-13) (see below), further increasing its negative electrostatic potential. The N-linked carbohydrates fall distal to the active sites (FIG. 6d). Each monomer contains the three N-linked carbohydrate sites, five disulfide bonds (C52-C94, C56-C63, C142-C172, C202-C223, and C378-C382), two unpaired cysteines (C90 and C174), and three cis prolines (P210, P380, and P389).

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As mentioned above, the C-terminal seven and eight residues of each chain have no electron density associated with them and are presumably disordered. This disorder is consistent with the observation of slight heterogeneity in the C-terminus of recombinant human α -GAL, where the truncation of one or two residues from the C-terminus can occur but has no effect upon the activity of the enzyme (Lee, K., et al., *Glycobiology*, 2003, 13:305-13). The structure offers no support for the observation that the removal of 2 to 10 residues from the C-terminus increases the activity of α -GAL (Miyamura, N., et al., *J Clin Invest*, 1996, 98:1809-17), because the final residue seen in the structure falls at least 45Å from each active site and on the opposite face of the molecule.

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In both the native and galactose-soaked crystal structures, electron density appears in the two crystallographically-independent active sites (FIGS. 8a and b). In the galactose-soaked crystal, this density represents α-galactose, the normal catalytic product of the enzyme (K_i ~lmM). In the native structure, this density most likely derives from the cryoprotectant ethylene glycol, a weak inhibitor of glycoside hydrolases (Tsitsanou, K. E., et al., *Protein Sci*, 1999, 8:741-9), analogous to the insertion of glycerol into carbohydrate binding sites on proteins (Garman, S. C., et al., *Structure*, 2002, 10:425-434; Tsitsanou, K. E., et al., *Protein Sci*, 1999, 8:741-9; Schmidt, A., et al., *Protein Sci*, 1998, 7:2081-8). The two active sites of the dimer are separated by approximately 50 Å. As the enzyme shows little change between the liganded and unliganded structures, there is no evidence for cooperativity between the two sites, although the biochemical evidence is mixed (Dean, K. J. & Sweeley, C. C., *J Biol Chem*, 1979, 254:9994-10000; Bishop, D. F. & Desnick, R. J., *J Biol Chem*, 1981, 256:1307-16).

We have determined that human α -GAL binds α -galactose by making specific contacts to each functional group on the monosaccharide. Residues from seven loops in domain 1 form the *active site*: β 1- α 1, β 2- α 2, β 3- α 3, β 4- α 4, β 5- α 5, β 6- α 6, and β 7- α 7. The active site is formed by the side chains of residues W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267. Thus, a binding pocket defined by the structural coordinates of these amino acids, as set forth in FIG. 1; or a binding pocket whose root mean square deviation from the structure coordinates of the backbone atoms of these amino acids is not more than 1.5 Å is considered a human α -GAL-like binding pocket of this invention. In important embodiments, C172 makes a disulfide bond to C142.

In the α -GAL/ α -NAGAL family, specificity for the 2 position on the galactose ligand occurs via the β 5- α 5 loop. This was called the "N-acetyl recognition loop" in α -NAGAL

(Garman, S. C., et al., Structure, 2002, 10:425-434); in the overall α -GAL/ α -NAGAL family "2 position recognition loop" or "2 loop" is appropriate. This loop falls near the boundary of exons 4 and 5 of animal α -GAL/ α -NAGAL, which have a small insertion in this region, resulting in a short helical stretch at the top of the β 5 strand; this insertion is absent in other species. Plant and fungal α -GALs use a Cys and a Trp on this loop to coordinate the 2-hydroxyl on galactose; animal α -GAL uses a Glu and a Leu to recognize the 2-hydroxyl (FIG. 7, green) while animal α -NAGAL uses a Ser and an Ala to recognize an N-acetyl at the 2 position (FIG. 7, yellow). In the animal enzymes, the larger Glu and Leu side chains sterically block the larger N-acetyl substituent, while the smaller Ser and Ala side chains nicely accommodate an N-acetyl group and tolerate a hydroxyl group.

With three different conformations in the 2 loop now identified, the substrate specificity of the other members of the family can be categorized by homology. For example, genome sequencing of *Drosophila melanogaster* and *Anopheles gambiae* have each identified pairs of genes in the α -GAL family. By examination of the sequences in the 2 loop, two are clearly α -NAGALs while the other two appear to be α -GALs (FIG. 7, yellow and purple). Surprisingly, *Aspergillus niger* contains an enzyme identified as α -GAL that, although only 30% identical to the animal protein sequences, contains a 2 loop virtually identical to animal α -NAGALs (FIG. 7, yellow). We predict this enzyme is primarily an α -NAGAL with partial α -GAL activity, much like human α -NAGAL, which was originally thought to be an α -GAL based upon similar activity (Dean, K. J., et al., *Biochem. Biophys. Res. Commun.*, 1977, 77:1411-7; Schram, A. W., et al., *Biochim. Biophys. Acta*, 1977, 482:138-44).

Although human α -GAL makes contacts to each functional group on the α -galactose ligand, the enzyme shows little specificity for the distal portion of the substrate beyond the glycosidic linkage, and the active site cleft is found in a broad opening on the concave surface of the enzyme (FIG. 6c). The lack of substrate specificity of human α -GAL beyond the terminal α -galactose differs slightly from the specificity of other α -GALs, which act only upon substrates containing terminal α 1-6 galactose groups (Kim,W.D., et al., *Phytochemistry*, 2002, 61:621-30). This increased specificity of plant α -GALs may derive from their monomeric structure, as residues buried in the dimer interface of animal α -GALs (e.g., those on the β 1- α 1 loop - Fujimoto, Z., et al., *J Biol Chem*, 2003, 278:20313-8) are available for ligand recognition in monomeric α -GALs.

Both α -GALs and α -NAGALs are α retaining exoglycosidases, where both the substrate and product of the catalytic reactions are α anomers at the 1 position on the galactose ring. This retention of anomeric configuration is accomplished by a double displacement catalytic mechanism where the anomeric carbon undergoes two successive nucleophilic attacks (Vasella, A., et al., Curr Opin Chem Biol, 2002, 6:619-29). The two sequential inversions of the anomeric carbon lead to retention of the configuration at the end of the catalytic cycle. In two α-GALs from different species, peptic digestion of covalently trapped intermediates has identified the specific aspartic acid acting as the catalytic nucleophile (Hart, D. O., et al., Biochemistry, 2000, 39:9826-36; Ly, H. D., et al., Carbohydr. Res., 2000, 329:539-47). These data, combined with the high resolution structure of chicken α -NAGAL, predict the catalytic mechanism of human α -GAL. In human α -GAL, the first nucleophilic attack upon the substrate comes from D170, cleaving the glycosidic linkage and leading to a covalent enzyme-intermediate complex. In the second step of the reaction, a water molecule (deprotonated by D231) attacks C1 of the covalent intermediate, liberating the second half of the catalytic product and regenerating the enzyme in its initial state. Human α-GAL operates most efficiently at low pH, consistent with its highly acidic composition and its lysosomal location.

Retaining glycosidases typically have distances of 5-6Å between catalytic carboxylates, while inverting glycosidases typically have distances of 9-11Å between these residues (McCarter, J. D. & Withers, S. G., Curr. Opin. Struct. Biol. 1994, 4:885-92). From these distances, it has been possible to reliably predict the mechanism and function of a glycosidase given its structure. However, this rule must be reconsidered in light of the new structures in the α -GAL/ α -NAGAL family: for the known structures in the family, the closest approach of the two catalytic carboxylates is 6.5-7Å, among the largest distances seen for retaining glycosidases.

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It will be readily apparent to those of skill in the art that the numbering of amino acids in other isoforms of human α -GAL may be different than that set forth for herein. Corresponding amino acids in other isoforms of human α -GAL are easily identified by visual inspection of the amino acid sequences or by using commercially available homology software programs. Each of those amino acids of human α -GAL is defined by a set of structure coordinates set forth in FIG. 1. The term "structure coordinates" refers to Cartesian coordinates derived from mathematical equations related to the patterns obtained on diffraction of a monochromatic beam of X-rays by the atoms (scattering centers) of a protein

or protein-ligand complex in crystal form. The diffraction data are used to calculate an electron density map of the repeating unit of the crystal. The electron density maps are then used to establish the positions of the individual atoms of the enzyme or enzyme complex.

Those of skill in the art understand that a set of structure coordinates for an enzyme or an enzyme-complex or a portion thereof, is a relative set of points that define a shape in three dimensions. Thus, it is possible that an entirely different set of coordinates could define a similar or identical shape. Moreover, slight variations in the individual coordinates will have little effect on overall shape. In terms of binding pockets, these variations would not be expected to significantly alter the nature of ligands that could associate with those pockets.

The term "associating with" refers to a condition of proximity between a chemical entity or compound, or portions thereof, and a binding pocket or binding site on a protein. The association may be non-covalent--wherein the juxtaposition is energetically favored by hydrogen bonding or van der Waals or electrostatic interactions--or it may be covalent.

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The variations in coordinates discussed above may be generated because of mathematical manipulations of the human α -GAL structure coordinates. For example, the structure coordinates set forth in FIG. 1 could be manipulated by crystallographic permutations of the structure coordinates, fractionalization of the structure coordinates, integer additions or subtractions to sets of the structure coordinates, inversion of the structure coordinates or any combination of the above.

Alternatively, modifications in the crystal structure due to mutations, additions, substitutions, and/or deletions of amino acids, or other changes in any of the components that make up the crystal could also account for variations in structure coordinates. If such variations are within an acceptable standard error as compared to the original coordinates, the resulting three-dimensional shape is considered to be the same. Thus, for example, a ligand (e.g., substrate) that bound to the α -GAL active site would also be expected to bind to another binding pocket whose structure coordinates defined a shape that fell within the acceptable error.

Various computational analyses are therefore necessary to determine whether a molecule or the binding pocket portion thereof is sufficiently similar to the α-GAL active/binding site described above. Such analyses may be carried out in well known software applications, such as the Molecular Similarity application of QuantaTM (Molecular Simulations Inc., San Diego, CA.) version 4.1, and as described in the accompanying User's Guide.

The Molecular Similarity application permits comparisons between different structures, different conformations of the same structure, and different parts of the same structure. The procedure used in Molecular Similarity to compare structures is divided into four steps: 1) load the structures to be compared; 2) define the atom equivalences in these structures; 3) perform a fitting operation; and 4) analyze the results.

Each structure is identified by a name. One structure is identified as the target (i.e., the fixed structure); all remaining structures are working structures (i.e., moving structures). Since atom equivalency within QuantaTM is defined by user input, for the purpose of this invention we will define equivalent atoms as protein backbone atoms (N, Cα, C and O) for all conserved residues between the two structures being compared. We also consider only rigid fitting operations.

When a rigid fitting method is used, the working structure is translated and rotated to obtain an optimum fit with the target structure. The fitting operation uses an algorithm that computes the optimum translation and rotation to be applied to the moving structure, such that the root mean square difference of the fit over the specified pairs of equivalent atom is an absolute minimum. This number, given in angstroms (Å), is reported by QuantaTM.

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For the purpose of this invention, any molecule or molecular complex or binding pocket thereof that has a root mean square deviation of conserved residue backbone atoms (N, Ca, C and O) of less than 1.5 Å when superimposed on the relevant backbone atoms described by structure coordinates listed in FIG. 1 are considered identical. More preferably, the root mean square deviation is less than 1.0 Å.

The term "root mean square deviation" means the square root of the arithmetic mean of the squares of the deviations from the mean. It is a way to express the deviation or variation from a trend or object. For purposes of this invention, the "root mean square deviation" defines the variation in the backbone of a protein from the backbone of human α -GAL or a binding pocket portion thereof, as defined by the structure coordinates of human α -GAL described herein.

Therefore, according to one aspect of the invention a computer is provided for producing:

(a) a three-dimensional representation of a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by structure coordinates of human α-galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1; or

b) a three-dimensional representation of a homologue of said molecule or molecular complex, wherein said homologue comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:

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- a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises the structure coordinates of human α-galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1;
- (ii) a working memory for storing instructions for processing said machinereadable data;
- (iii) a central-processing unit coupled to said working memory and to said machine-readable data storage medium for processing said machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said threedimensional representation.

In an important embodiment, C172 makes a disulfide bond to C142.

According to another aspect of the invention, a computer for producing a three-dimensional representation of a molecule or molecular complex defined by structure coordinates of all of the human α -GAL amino acids set forth in FIG. 1, or a three-dimensional representation of a homologue of said molecule or molecular complex, is provided. The homologue comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å. In this aspect of the invention, a machine readable data contains the coordinates of all of human α -GAL.

According to a further aspect, the invention provides a computer for determining at least a portion of the structure coordinates corresponding to X-ray diffraction data obtained from a molecule or molecular complex, wherein said computer comprises:

(a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structural coordinates of human α -GAL according to FIG. 1;

- (b) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises X-ray diffraction data from said molecule or molecular complex;
- (c) a working memory for storing instructions for processing said machine-readable data of (a) and (b);
 - (d) a central-processing unit coupled to said working memory and to said machinereadable data storage medium of (a) and (b) for performing a Fourier transform of the machine readable data of (a) and for processing said machine readable data of (b) into structure coordinates; and
- (e) a display coupled to said central-processing unit for displaying said structure coordinates of said molecule or molecular complex.

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FIG. 2 demonstrates one version of the foregoing aspects. System 10 includes a computer 11 comprising a central processing unit ("CPU") 20, a working memory 22 which may be, e.g., RAM (random-access memory) or "core" memory, mass storage memory 24 (such as one or more disk drives or CD-ROM drives), one or more cathode-ray tube ("CRT") display terminals 26, one or more keyboards 28, one or more input lines 30, and one or more output lines 40, all of which are interconnected by a conventional bi-directional system bus 50.

Input hardware 36, coupled to computer 11 by input lines 30, may be implemented in a variety of ways. Machine-readable data of this invention may be inputted via the use of a modern or moderns 32 connected by a telephone line or dedicated data line 34. Alternatively or additionally, the input hardware 36 may comprise CD-ROM drives or disk drives 24. In conjunction with display terminal 26, keyboard 28 may also be used as an input device.

Output hardware 46, coupled to computer 11 by output lines 40, may similarly be implemented by conventional devices. By way of example, output hardware 46 may include CRT display terminal 26 for displaying a graphical representation of a binding pocket of this invention using a program such as QuantaTM as described herein. Output hardware might also include a printer 42, so that hard copy output may be produced, or a disk drive 24, to store system output for later use.

In operation, CPU 20 coordinates the use of the various input and output devices 36, 46, coordinates data accesses from mass storage 24 and accesses to and from working memory 22, and determines the sequence of data processing steps. A number of programs may be used to process the machine-readable data of this invention. Such programs are

discussed in reference to the computational methods of drug discovery as described herein. Specific references to components of the hardware system 10 are included as appropriate throughout the following description of the data storage medium.

FIG. 3 shows a cross section of a magnetic data storage medium 100 which can be encoded with a machine-readable data that can be carried out by a system such as system 10 of FIG. 2. Medium 100 can be a conventional floppy diskette or hard disk, having a suitable substrate 101, which may be conventional, and a suitable coating 102, which may be conventional, on one or both sides, containing magnetic domains (not visible) whose polarity or orientation can be altered magnetically. Medium 100 may also have an opening (not shown) for receiving the spindle of a disk drive or other data storage device 24.

The magnetic domains of coating 102 of medium 100 are polarized or oriented so as to encode in manner which may be conventional, machine readable data such as that described herein, for execution by a system such as system 10 of FIG. 2.

FIG. 4 shows a cross section of an optically-readable data storage medium 110 which also can be encoded with such a machine-readable data, or set of instructions; which can be carried out by a system such as system 10 of FIG. 2. Medium 110 can be a conventional compact disk read only memory (CD-ROM) or a rewritable medium such as a magneto-optical disk which is optically readable and magneto-optically writable. Medium 100 preferably has a suitable substrate 111, which may be conventional, and a suitable coating 112, which may be conventional, usually of one side of substrate 111.

In the case of CD-ROM, as is well known, coating 112 is reflective and is impressed with a plurality of pits 113 to encode the machine-readable data. The arrangement of pits is read by reflecting laser light off the surface of coating 112. A protective coating 114, which preferably is substantially transparent, is provided on top of coating 112.

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In the case of a magneto-optical disk, as is well known, coating 112 has no pits 113, but has a plurality of magnetic domains whose polarity or orientation can be changed magnetically when heated above a certain temperature, as by a laser (not shown). The orientation of the domains can be read by measuring the polarization of laser light reflected from coating 112. The arrangement of the domains encodes the data as described above.

Thus, in accordance with the present invention, X-ray coordinate data capable of being processed into a three dimensional graphical display of a molecule or molecular complex which comprises an α -GAL-like binding pocket is stored in a machine-readable storage medium.

The human α -GAL X-ray coordinate data, when used in conjunction with a computer programmed with software to translate those coordinates into the 3-dimensional structure of a molecule or molecular complex comprising an α -GAL-like binding pocket may be used for a variety of purposes, such as drug discovery.

For example, the structure encoded by the data may be computationally evaluated for its ability to associate with chemical entities. Chemical entities that associate with human α -GAL may inhibit that enzyme, and are potential drug candidates. Alternatively, the structure encoded by the data may be displayed in a graphical three-dimensional representation on a computer screen. This allows visual inspection of the structure, as well as visual inspection of the structure's association with chemical entities.

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Thus, according to another aspect the invention relates to a method for evaluating the potential of a chemical entity to associate with:

- a) a molecular complex comprising a binding pocket defined by structure coordinates of human α -galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1, or
- b) a homologue of said molecule or molecular complex, wherein said homologue comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å. The method comprises the steps of:
- i) employing computational means to perform a fitting operation between the chemical entity and a binding pocket of the molecule or molecular complex; and
- ii) analyzing the results of said fitting operation to quantify the association between the chemical entity and the binding pocket.

The term "chemical entity," as used herein, refers to chemical compounds, complexes of at least two chemical compounds, and fragments of such compounds or complexes.

Alternatively, the structural coordinates of the human α -GAL binding pocket can be utilized in a method for identifying a potential agonist or antagonist of a molecule comprising a human α -GAL-like binding pocket. The method comprises the steps of:

a) using the atomic coordinates of human α -galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1 \pm a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, to generate a three-dimensional structure of molecule comprising α -GAL-like binding pocket;

- b) employing said three-dimensional structure to design or select said potential agonist or antagonist;
 - c) synthesizing said agonist or antagonist; and

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d) contacting said agonist or antagonist with said molecule to determine the ability of said potential agonist or antagonist to interact with said molecule.

In important embodiments, the atomic coordinates of all the amino acids of NS3 human α -GAL according to FIG. 1 \pm a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, are used to generate a three-dimensional structure of molecule comprising an α -GAL-like binding pocket.

For the first time, the present invention permits the use of molecular design techniques to identify, select and design chemical entities, including agonists and antagonists, capable of binding to human α -GAL-like binding pockets. Because of the present invention, the necessary information for designing new chemical entities and compounds that may interact with human α -GAL-like binding pockets, in whole or in part, is provided.

Throughout this section, discussions about the ability of an entity to bind to, associate with or inhibit a human α -GAL-like binding pocket refers to features of the entity alone. Assays to determine if a compound binds to human α -GAL are well known in the art and are exemplified below.

The design of compounds that bind to or inhibit human α -GAL-like binding pockets according to this invention generally involves consideration of two factors. First, the entity must be capable of physically and structurally associating with parts or all of the human α -GAL -like binding pockets. Non-covalent molecular interactions important in this association include hydrogen bonding, van der Waals interactions, hydrophobic interactions and electrostatic interactions.

Second, the entity must be able to assume a conformation that allows it to associate with the human α -GAL-like binding pocket directly. Although certain portions of the entity will not directly participate in these associations, those portions of the entity may still influence the overall conformation of the molecule. This, in turn, may have a significant impact on potency. Such conformational requirements include the overall three-dimensional structure and orientation of the chemical entity in relation to all or a portion of the binding pocket, or the spacing between functional groups of an entity comprising several chemical

entities that directly interact with the human α -GAL-like binding pocket or homologues thereof.

The potential inhibitory or binding effect of a chemical entity on a human α -GAL-like binding pocket may be analyzed prior to its actual synthesis and testing by the use of computer modeling techniques. If the theoretical structure of the given entity suggests insufficient interaction and association between it and the human α -GAL-like binding pocket, testing of the entity is obviated. However, if computer modeling indicates a strong interaction, the molecule may then be synthesized and tested for its ability to bind to a human α -GAL-like binding pocket. This may be achieved by testing the ability of the molecule to inhibit human α -GAL using assays described in the art. In this manner, synthesis of inoperative compounds may be avoided.

A potential inhibitor of a human α -GAL-like binding pocket may be computationally evaluated by means of a series of steps in which chemical entities or fragments are screened and selected for their ability to associate with the human α -GAL-like binding pockets.

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One skilled in the art may use one of several methods to screen chemical entities or fragments for their ability to associate with a human α -GAL-like binding pocket. This process may begin by visual inspection of, for example, a human α -GAL-like binding pocket on the computer screen based on the human α -GAL structure coordinates in FIG. 1 or other coordinates which define a similar shape generated from the machine-readable storage medium. Selected fragments or chemical entities may then be positioned in a variety of orientations, or docked, within that binding pocket as defined supra. Docking may be accomplished using software such as QuantaTM and SybylTM, followed by energy minimization and molecular dynamics with standard molecular mechanics force fields, such as CharmmTM and AmberTM.

Specialized computer programs may also assist in the process of selecting fragments or chemical entities. These include: GRID (P. J. Goodford, *J. Med. Chem.*, 1985, 28:849-857), available from Oxford University, Oxford, UK; MCSS (A. Miranker et al., *Proteins: Structure, Function and Genetics*, 1991, 11:29-34), available from Molecular Simulations, San Diego, CA; AUTODOCK (D. S. Goodsell et al., *Proteins: Structure, Function, and Genetics*, 1990, 8:195-20), available from Scripps Research Institute, La Jolla, CA; DOCK (I. D. Kuntz et al., *J. Mol. Biol.*, 1982, 161:269-288), available from University of California, San Francisco, CA.

Other suitable software that can be used to view, analyze, design, and/or model a protein, and/or protein fragments, include but are not limited to: AlchemyTM, LabVisionTM, Sybyl™, Molcadd™, Leapfrog™, Matchmaker™, Genefold™ and Sitel™ (available from Tripos Inc., St. Louis, MO); QuantaTM, Cerius2TM, X-PlorTM, CNSTM, CatalystTM, Modeller™, ChemX™, Ludi™, Insight™, Discover™, Cameleon™ and Iditis™ (available from Accelrys Inc., Princeton N.J.); RasmolTM (available from Glaxo Research and Development, Greenford, Middlesex, U.K.); MOETM (available from Chemical Computing Group, Montreal, Quebec, Canada); MaestroTM (available from Shrodinger Inc.,); Midas/MidasPlus™ (available from UCSF, San Francisco, CA); VRML (webviewer-freeware on the internet); Chime (MDL--freeware on the internet); MOIL (available from University of Illinois, Urbana-Champaign, IL); MacroModel™ and GRASP™ (available from Columbia University, New York, NY); Ribbon™ (available from University of Alabama, Tuscaloosa, AL); NAOMITM (available from Oxford University, Oxford, UK); Explorer EyechemTM (available from Silicon Graphics Inc., Mountain View, CA); Univision[™] (available from Cray Research Inc., Seattle, WA); Molscript[™] and O (available from Uppsala University, Uppsala, Sweden); Chem 3D™ and Protein Expert™ (available from Cambridge Scientific, MA); ChainTM (available from Baylor College of Medicine, Houston, TX); Spartan™, MacSpartan™ and Titan™ (available from Wavefunction Inc., Irvine, CA); VMD™ (available from U. Illinois/Beckman Institute); Sculpt™ (available from Interactive Simulations, Inc., Portland, OR); ProcheckTM (available from Brookhaven National Laboratory, Upton, NY); DGEOM (available from QCPE--Quantum Chemistry Program Exchange, Indiana University Bloomington, IN); RE_VIEW (available from Brunel University, London, UK); Xmol (available from Minnesota Supercomputing Center, University of Minnesota, Minneapolis, MN); Hyperchem[™] (available from Hypercube, Inc., Gainesville, FL); MD Display (available from University of Washington, Seattle, WA.); PKB (available from National Center for Biotechnology Information, NIH, Bethesda, MD); Molecular Discovery Programmes (available from Molecular Discovery Limited, Mayfair, London); Growmol™ (available from Thistlesoft, Morris Township, N.J.); MICE (available from The San Diego Supercomputer Center. La Jolla, CA); Yummie and MCPro (available from Yale University, New Haven, CT); CaveatTM (P. A. Bartlett et al, In "Molecular Recognition in Chemical and Biological Problems", Special Pub., Royal Chem. Soc., 1989, 78:182-196; G. Lauri and P. A. Bartlett, J. Comput. Aided Mol. Des., 1994, 8:51-66), available from the University of California, Berkeley, CA; 3D Database systems such as

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ISIS™ (MDL Information Systems, San Leandro, CA). This area is reviewed in Y. C. Martin, "3D Database Searching in Drug Design", J. Med. Chem., 1992, 35:2145-2154; Hook™ (M. B. Eisen et al, Proteins: Struct., Funct., Genet., 1994, 19:199-221), available from Molecular Simulations, San Diego, CA; and upgraded versions thereof.

Once suitable chemical entities or fragments have been selected, they can be assembled into a single compound or complex. Assembly may be preceded by visual inspection of the relationship of the fragments to each other on the three-dimensional image displayed on a computer screen in relation to the structure coordinates of human α -GAL. This would be followed by manual model building using software such as QuantaTM or SybylTM.

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Instead of proceeding to build an inhibitor of human α -GAL-like binding pocket in a step-wise fashion one fragment or chemical entity at a time as described above, inhibitory or other human α -GAL binding compounds may be designed as a whole or "de novo" using either an empty binding site or optionally including some portion(s) of a known inhibitor(s).

Other molecular modeling techniques may also be employed in accordance with this invention [see, e.g., N. C. Cohen et al., *J. Med. Chem.*, 1990, 33:883-894; see also, M. A. Navia and M. A. Murcko, *Curr. Opin. in Struct. Biology*, 1992, 2:202-210; L. M. Balbes et al., "A Perspective of Modern Methods in Computer-Aided Drug Design", in *Reviews in Computational Chemistry*, Vol. 5, K. B. Lipkowitz and D. B. Boyd, Eds., VCH, New York, pp. 337-380 (1994); see also, W. C. Guida, *Curr. Opin. Struct. Biology*, 1994, 4:777-781].

Once a compound has been designed or selected by the above methods, the efficiency with which that entity may bind to an human α -GAL binding pocket may be tested and optimized by computational evaluation. For example, an effective human α -GAL binding pocket inhibitor must preferably demonstrate a relatively small difference in energy between its bound and free states (i.e., a small deformation energy of binding). Thus, the most efficient human α -GAL binding pocket inhibitors should preferably be designed with a deformation energy of binding of not greater than about 10 kcal/mole, more preferably, not greater than 7 kcal/mole. Human α -GAL binding pocket inhibitors may interact with the binding pocket in more than one conformation that is similar in overall binding energy. In those cases, the deformation energy of binding is taken to be the difference between the energy of the free entity and the average energy of the conformations observed when the inhibitor binds to the protein.

An entity designed or selected as binding to a human α -GAL binding pocket may be further computationally optimized so that in its bound state it would preferably lack repulsive electrostatic interaction with the target enzyme and with the surrounding water molecules. Such non-complementary electrostatic interactions include repulsive charge-charge, dipole-dipole and charge-dipole interactions.

Specific computer software is available in the art to evaluate compound deformation energy and electrostatic interactions. Examples of software designed for such uses include: Gaussian 94, revision C (M. J. Frisch, Gaussian, Inc., Pittsburgh, PA, @1995); AMBER, version 4.1 (P. A. Kollman, University of California at San Francisco, @1995); QUANTA/CHARMM (Molecular Simulations, Inc., San Diego, CA, @1995); Insight II/Discover (Molecular Simulations, Inc., San Diego, CA @1995); DelPhi (Molecular Simulations, Inc., San Diego, CA @1995); and AMSOL (Quantum Chemistry Program Exchange, Indiana University). These programs may be implemented, for instance, using a Silicon Graphics workstation such as an Indigo² with "IMPACT" graphics. Other hardware systems and software packages will be known to those skilled in the art.

Another approach enabled by this invention, is the computational screening of small molecule databases for chemical entities or compounds that can bind in whole, or in part, to a human α -GAL binding pocket. In this screening, the quality of fit of such entities to the binding site may be judged either by shape complementarity or by estimated interaction energy (E. C. Meng et al., *J. Comp. Chem.*, 1992, 13:505-524).

According to another embodiment, the invention provides compounds which associate with a human α -GAL-like binding pocket produced or identified by the method set forth above.

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The structure coordinates set forth in FIG. 1 can also be used to aid in obtaining structural information about another crystallized molecule or molecular complex. This may be achieved by any of a number of well-known techniques, including molecular replacement.

Therefore, in another aspect this invention provides a method of utilizing molecular replacement to obtain structural information about a molecule or molecular complex whose structure is unknown comprising the steps of:

- a) crystallizing said molecule or molecular complex of unknown structure;
- b) generating X-ray diffraction data from said crystallized molecule or molecular complex; and

c) applying at least a portion of the structure coordinates set forth in FIG. 1 to the X-ray diffraction data to generate a three-dimensional electron density map of the molecule or molecular complex whose structure is unknown.

By using molecular replacement, all or part of the structure coordinates of the human α -GAL as provided by this invention (and set forth in FIG. 1) can be used to determine the structure of a crystallized molecule or molecular complex whose structure is unknown more quickly and efficiently than attempting to determine such information *ab initio*.

Molecular replacement provides an accurate estimation of the phases for an unknown structure. Phases are a factor in equations used to solve crystal structures that can not be determined directly. obtaining accurate values for the phases, by methods other than molecular replacement, is a time-consuming process that involves iterative cycles of approximations and refinements and greatly hinders the solution of crystal structures. However, when the crystal structure of a protein containing at least a homologous portion has been solved, the phases from the known structure provide a satisfactory estimate of the phases for the unknown structure.

Thus, this method involves generating a preliminary model of a molecule or molecular complex whose structure coordinates are unknown, by orienting and positioning the relevant portion of the human α-GAL according to FIG. 1 within the unit cell of the crystal of the unknown molecule or molecular complex so as best to account for the observed X-ray diffraction data of the crystal of the molecule or molecular complex whose structure is unknown. Phases can then be calculated from this model and combined with the observed X-ray diffraction data amplitudes to generate an electron density map of the structure whose coordinates are unknown. This, in turn, can be subjected to any well-known model building and structure refinement techniques to provide a final, accurate structure of the unknown crystallized molecule or molecular complex [E. Lattman, *Meth. Enzymol.*, 1985, 115:55-77; M. G. Rossmann, ed., "The Molecular Replacement Method", *Int. Sci. Rev. Ser.*, No. 13, Gordon & Breach, New York (1972)].

The structure of any portion of any crystallized molecule or molecular complex that is sufficiently homologous to any portion of human α -GAL can be resolved by this method.

In a preferred embodiment, the method of molecular replacement is utilized to obtain structural information about another galactosidase. The structure coordinates of human α -GAL as provided by this invention are particularly useful in solving the structure of other isoforms of α -GAL or other α -GAL-containing complexes.

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Furthermore, the structure coordinates of human α -GAL as provided by this invention are useful in solving the structure of α -GAL proteins that have amino acid substitutions, additions and/or deletions (referred to collectively as "human α -GAL mutants", as compared to naturally occurring human α -GAL isoforms. These human α -GAL mutants may optionally be crystallized in co-complex with a chemical entity, such as galactose. The crystal structures of a series of such complexes may then be solved by molecular replacement and compared with that of wild-type human α -GAL. Potential sites for modification within the various binding sites of the enzyme may thus be identified. This information provides an additional tool for determining the most efficient binding interactions, for example, increased hydrophobic interactions, between human α -GAL and a chemical entity or compound.

The structure coordinates are also particularly useful to solve the structure of crystals of human α -GAL or human α -GAL homologues co-complexed with a variety of chemical entities. This approach enables the determination of the optimal sites for interaction between chemical entities, including between candidate human α -GAL agonists and human α -GAL. For example, high resolution X-ray diffraction data collected from crystals exposed to different types of solvent allows the determination of where each type of solvent molecule resides. Small molecules that bind tightly to those sites can then be designed and synthesized and tested for their human α -GAL agonistic activity.

All of the complexes referred to above may be studied using well-known X-ray diffraction techniques and may be refined versus 1.5-3.5 Å resolution X-ray data to an R value of about 0.20 or less using computer software, such as X-PLOR [Yale University, ©1992, distributed by Molecular Simulations, Inc.; see, e.g., Blundell & Johnson, supra; Meth. Enzymol., vol. 114 & 115; H. W. Wyckoff et al., eds., Academic Press (1985)]. This α-GAL information may thus be used to optimize known human agonists/antagonists/inhibitors, and more importantly, to design new human α-GAL agonists/antagonists/inhibitors.

The invention will be more fully understood by reference to the following examples. These examples, however, are merely intended to illustrate the embodiments of the invention and are not to be construed to limit the scope of the invention.

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Experimental Procedures Materials and Methods

Cloning and Expression of human α-Galactosidase:

Human α -Galactosidase (ReplagalTM lot G302-010, Transkaryotic Therapies, Inc.) was produced using gene activation technology as described in detail in U.S. Patents Nos. 5,733,761, 6,270,989, and 6,565,844, all of which are expressly incorporated herein by reference. Briefly, regulatory (e.g., a viral promoter) and structural DNA sequences were inserted upstream of the endogenous human α -Galactosidase genomic locus (GenBank Acc. No. HSU78027) in a human cell (e.g., HT-1080) using homologous recombination. As a result, α -Galactosidase expression was enhanced resulting in secretion of α -Galactosidase protein to the culture supernatant. The α -Galactosidase polypeptide was then highly purified using the methods described in detail in U.S. Patents Nos. 6,083,725, 6,395,884 and 6,458,574, all of which are expressly incorporated herein by reference.

Crystallization and x-ray data collection:

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Human α-Galactosidase was concentrated to 40mg/ml in 20mM TrisHCl pH 7.5 prior to crystallization trials. Crystals were grown in either hanging or sitting drops via vapor diffusion against a reservoir solution of 30% polyethylene glycol (PEG) 4000 (Fluka), 100mM TrisHCl pH 8.0, and 200mM ammonium sulfate. Crystals were then harvested into 35% PEG 4000, 100mM TrisHCl pH 7.5, and 20% (v:v) ethylene glycol. Crystals were cooled in liquid nitrogen and then transferred into a gaseous nitrogen stream at 100K for xray data collection. Ligand-soaked crystals were transferred into 31% PEG 3350, 100mM sodium acetate pH 5.5, and 110mM D-(+)-galactose (Sigma) prior to nitrogen cooling and xray data collection. Despite efforts to increase their size, the crystals never grew larger than 30 x 30 x 100 μ m. For each crystal, 180° of diffraction data were collected at beamline 22-ID at the Advanced Photon Source. Processing of x-ray images using the HKL2000 package (Otwinowski, Z. & Minor, W., Methods in Enzymology, 1997, 276:307-326) revealed unit cell constants of approximately 89Å x 89Å x 215Å in space P3₁21 or P3₂21. The diffraction from these crystals proved to be extremely anisotropic, with reflections visible to 2.8Å in the direction of the crystallographic c axis, but only to approximately 4Å in the perpendicular directions. This, plus the high redundancy and weak diffraction overall from the small crystals, resulted in very poor merging statistics. The native frames were initially processed using HKL2000 to 3.25Å. Reprocessing the frames in MOSFLM and SCALA (Collaborative Computational Project, *Acta Crystallogr.*, 1994, D50:760-763) with anisotropic diffraction limits produced maps of lower quality, so this route was abandoned, and the original data were used throughout the refinement. The high resolution limits were determined from the shell where <I/o

i dropped to 2. Intensities were adjusted with TRUNCATE (Collaborative Computational Project, *Acta Crystallogr.*, supra) prior to molecular replacement and refinement.

Phasing, model building, and refinement:

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Molecular replacement calculations were performed in the program AmoRe (Collaborative Computational Project, Acta Crystallogr., 1994, D50:760-763) using a homology model of the human α-GAL protein built from the crystal structure of chicken α-NAGAL (Garman, S. C., et al., Structure, 2002, 10:425-434). The dimeric model was rotated and translated against the 8-4Å diffraction amplitudes. Molecular replacement in both enantiomorphic space group possibilities identified a dimer of α-GAL in the asymmetric unit of space group P3₂21 as the top solution, with a correlation coefficient of 28 and an R_{factor} of 58. Inspection of the packing showed no steric clashes in a unit cell with 50% solvent content. Rigid body refinement in the programs AMoRe and CNS (Brünger, A. T., et al., Acta Crystallogr. D Biol. Crystallogr. 1998, 54:905-21) was followed by model building in the program O (Jones, T. A., et al., Acta Crystallogr., 1991, A47:110-9). Residue numbering of the α -GAL protein begins at the secretory signal; the mature protein begins at amino acid 32. Refinement protocols in CNS included conjugate gradient minimization, simulated annealing, and temperature factor refinement. Models were built into σ_A weighted simulated annealing composite omit maps calculated in CNS. Strong two-fold non-crystallographic symmetry restraints (300 kcal/mol-Å²) were imposed on all atoms in the early stages of refinement, and later relaxed for the atoms that differ between the two halves of the dimer, including those in crystal contacts and N-linked carbohydrate atoms. Refinement steps were accepted only if they reduced the R_{free} (of a test set comprised of 820 reflections, 5% of the total, selected using resolution shells). The R_{work} and R_{free} for the native structure are 26.2% and 30.1%, respectively, using all reflections. Because of the limited resolution, side chain rotamers were typically chosen during manual rebuilding to be consistent with the 1.9Å chicken α -NAGAL structure.

Sequence alignments, calculations, and figures:

Beginning with the human α-GAL sequence, a BLAST search (Altschul, S. F., et al., Nucleic Acids Res 1997, 25:3389-402) of the NCBI non-redundant protein sequence database found the 50 closest sequences. After removal of 10 highly redundant sequences, the remaining 40 sequences were multiply aligned in CLUSTALW (Thompson, J. D., et al., Nucleic Acids Res, 1994, 22:4673-80), then converted into a phylogeny tree using the programs WEIGHBOR (Bruno, W. J., et al., Mol Biol Evol, 2000, 17:189-97) and PHYLIP (Felsenstein, J., Phylogeny Inference Package version 3.6, 1995, Department of Genetics, University of Washington, Seattle, WA). The accession codes of the 40 sequences from the NCBI non-redundant database are: NP_000160, NP_038491, CAC44626, XP_318652, AAM29494, XP_315871, NP_611119, AAL87527, XP_235515, NP_000253, 1KTB, NP 506031, NP 822650, NP 624613, AAC99325, NP821803, BAB83765, ZP_00066516, AAM13199, AAP04002, AAG13536, BAC55816, NP_568193, CAC08337, Q42656, BAC66445, T06388, T10860, P14749, AAF04591, BAB12570, NP191190, S45453, P41947, NP 595012, AAG24511, AAB35252, JC5558, NP 811977, and P28351. Sequence identities were calculated without signal sequences in EMBOSS using a Needleman-Wunsch full path matrix algorithm with the BLOSSUM62 matrix, a gap penalty of 10, and a gap extension penalty of 0.5 (Needleman, S. B. & Wunsch, C. D., J Mol Biol 1970, 48:443-53). Least squares superpositions of coordinates were performed using the program LSQMAN (Kleywegt, G. J. & Read, R. J., Structure, 1997, 5:1557-1569) with a distance cutoff of 3.8Å, and coordinate transformations were applied using the program MOLEMAN2 (Kleywegt, G. J. & Read, R. J., Structure, 1997, 5:1557-1569). Molecular figures were prepared using the programs MOLSCRIPT (Kraulis, P. J., J. Appl. Crystallogr., 1991, 24:946-950), BOBSCRIPT (Esnouf, R. M., J. Mol. Graph. Model. 1997, 15:132-34), and GRASP (Nicholls, A., et al., *Proteins* 1991, 11:281-96).

Results

The structure of human α -GAL was determined by x-ray crystallographic methods to a resolution limit of 3.25 Å (see Table 1 below).

Table 1: Crystallographic Statistics

Table 1. Crystallographic Statistics				
Data				
	Native	Ligand		
Beamline	APS 22-ID	APS 22-ID		
Wavelength, Å	1.033	1.033		
Space Group	P3 ₂ 21	P3 ₂ 21		
Cell Lengths, Å	88.5, 88.5, 215.5	90.0, 90.0, 216.5		
Resolution, Å (last shell)	50-3.25 (3.37-3.25)	50-3.45 (3.57-3.45)		
No. of Observations (last shell)	156309 (9921)	91651 (8610)		
No. of Unique Observations (last shell)	16080 (1542)	13922 (1323)		
Completeness, % (last shell)	99.8 (98.7)	99.7 (98.9)		
Multiplicity (last shell)	9.7 (6.5)	6.6 (6.7)		
R _{sym} (last shell)	0.246 (0.740)	0.200 (0.745)		
<i σ<sub="">I> (last shell)</i>	9.1 (2.4)	8.2 (2.4)		
Refinement				
R _{work} / R _{free}	26.2% / 30.1%	28.5% / 32.1%		
No. of Atoms: Protein	6251	6251		
Carbohydrate	268	331		
Other	18	18		
Ramachandran: Favored	74.4%	74.3%		
Allowed	23.0%	23.8%		
Generous	2.5%	1.5%		
Forbidden	0%	0.4%		
RMS Deviations: Bonds	0.009 Å	0.008 Å		
Angles	1.5°	1.5°		
Dihedrals	22.8°	22.8°		
Impropers	0.9°	0.8° .		

 $R_{sym} = \sum_h \sum_i ||h_{a,i} - \langle h_b \rangle ||\Sigma_h||_{h,i}|$, where $|h_{a,i}|$ is the i^{th} intensity measurement of reflection h and $|h_b|$ is the average intensity of that reflection.

 $R_{wort}/R_{irre} = \Sigma_h |F_P - F_C|/\Sigma_h |F_P|$, where F_C is the calculated and F_P is the observed structure factor amplitude of reflection h fo the working/free set, respectively.

The x-ray structure reveals human α -GAL as a homodimeric glycoprotein with each monomer composed of two domains, a $(\beta/\alpha)_8$ domain containing the active site and a C-terminal domain containing eight antiparallel β strands on two sheets in a β sandwich (FIG. 6a). After removal of the 31 residue signal sequence, the first domain extends from residues 32 to 330 and contains the active site formed by the C-terminal ends of the β strands at the center of barrel, a typical location for the active site in $(\beta/\alpha)_8$ domains. The second domain, comprised of residues 331 to 429, packs against the first with an extensive interface, burying 2500 Å² of surface area within one monomer. The dimer has overall protein dimensions of

approximately 75 x 75 x 50Å (FIG. 6b). The molecule is concave in the third dimension and varies in thickness from approximately 20 to 50Å (FIG. 6c). Electron density is visible for 390 and 391 amino acid residues (out of 398 total) in the two copies of the monomer in the crystallographic asymmetric unit; the missing residues occur at the C-terminus. The two monomers pack with an interface that extends the 75Å width of the dimer and buries 2200 Å² of surface area. In the dimer interface, 30 residues from each monomer contribute to the interface, from loops β 1- α 1, β 6- α 6, β 7- α 7, β 8- α 8, β 11- β 12, and β 15- β 16. The dimer is markedly negatively charged, as seen in a surface electrostatic potential (FIG. 6d). With 47 carboxylate groups and only 36 basic residues in the 398 residues in the molecule, the overall charge per monomer is expected to be -11 at neutral pH. The carboxylates are most concentrated around the active site, but in the low pH of the lysosome, many of these groups become protonated, reducing the charge on the molecule. In addition to the negative charges on the protein, the N-linked carbohydrate is highly phosphorylated and sialylated (Lee, K., et al., Glycobiology, 2003, 13:305-13), further increasing its negative electrostatic potential. The N-linked carbohydrates fall distal to the active sites (FIG. 6d). Each monomer contains the three N-linked carbohydrate sites, five disulfide bonds (C52-C94, C56-C63, C142-C172, C202-C223, and C378-C382), two unpaired cysteines (C90 and C174), and three cis prolines (P210, P380, and P389).

As mentioned above, the C-terminal seven and eight residues of each chain have no electron density associated with them and are presumably disordered. This disorder is consistent with the observation of slight heterogeneity in the C-terminus of recombinant human α -GAL, where the truncation of one or two residues from the C-terminus can occur but has no effect upon the activity of the enzyme (Lee, K., et al., *Glycobiology*, 2003, 13:305-13). The structure offers no support for the observation that the removal of 2 to 10 residues from the C-terminus increases the activity of α -GAL (Miyamura, N., et al., *J Clin Invest*, 1996, 98:1809-17), because the final residue seen in the structure falls at least 45Å from each active site and on the opposite face of the molecule.

Substrate specificity and catalytic mechanism

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In both the native and galactose-soaked crystal structures, electron density appears in the two crystallographically-independent active sites (FIGS. 8a and b). In the galactose-soaked crystal, this density represents α -galactose, the normal catalytic product of the enzyme ($K_i \sim 1 \text{mM}$). In the native structure, this density most likely derives from the

cryoprotectant ethylene glycol, a weak inhibitor of glycoside hydrolases (Tsitsanou, K. E., et al., *Protein Sci*, 1999, 8:741-9), analogous to the insertion of glycerol into carbohydrate binding sites on proteins (Garman, S. C., et al., *Structure*, 2002, 10:425-434; Tsitsanou, K. E., et al., *Protein Sci*, 1999, 8:741-9; Schmidt, A., et al., *Protein Sci*, 1998, 7:2081-8). The two active sites of the dimer are separated by approximately 50 Å. As the enzyme shows little change between the liganded and unliganded structures, there is no evidence for cooperativity between the two sites, although the biochemical evidence is mixed (Dean, K. J. & Sweeley, C. C., *J Biol Chem*, 1979, 254:9994-10000; Bishop, D. F. & Desnick, R. J., *J Biol Chem*, 1981, 256:1307-16).

We have determined that human α -GAL binds α -galactose by making specific contacts to each functional group on the monosaccharide. Residues from seven loops in domain 1 form the *active site*: β 1- α 1, β 2- α 2, β 3- α 3, β 4- α 4, β 5- α 5, β 6- α 6, and β 7- α 7. The active site is formed by the side chains of residues W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267. Thus, a binding pocket defined by the structural coordinates of these amino acids, as set forth in FIG. 1; or a binding pocket whose root mean square deviation from the structure coordinates of the backbone atoms of these amino acids is not more than 1.5 Å is considered a human α -GAL-like binding pocket of this invention. In important embodiments, C172 makes a disulfide bond to C142.

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In the α -GAL/ α -NAGAL family, specificity for the 2 position on the galactose ligand occurs via the β 5- α 5 loop. This was called the "N-acetyl recognition loop" in α -NAGAL (Garman, S. C., et al., *Structure*, 2002, 10:425-434); in the overall α -GAL/ α -NAGAL family "2 position recognition loop" or "2 loop" is appropriate. This loop falls near the boundary of exons 4 and 5 of animal α -GAL/ α -NAGAL, which have a small insertion in this region, resulting in a short helical stretch at the top of the β 5 strand; this insertion is absent in other species. Plant and fungal α -GALs use a Cys and a Trp on this loop to coordinate the 2-hydroxyl on galactose; animal α -GAL uses a Glu and a Leu to recognize the 2-hydroxyl (FIG. 7, green) while animal α -NAGAL uses a Ser and an Ala to recognize an N-acetyl at the 2 position (FIG. 7, yellow). In the animal enzymes, the larger Glu and Leu side chains sterically block the larger N-acetyl substituent, while the smaller Ser and Ala side chains nicely accommodate an N-acetyl group and tolerate a hydroxyl group.

With three different conformations in the 2 loop now identified, the substrate specificity of the other members of the family can be categorized by homology. For

example, genome sequencing of *Drosophila melanogaster* and *Anopheles gambiae* have each identified pairs of genes in the α -GAL family. By examination of the sequences in the 2 loop, two are clearly α -NAGALs while the other two appear to be α -GALs (FIG. 7, yellow and purple). Surprisingly, *Aspergillus niger* contains an enzyme identified as α -GAL that, although only 30% identical to the animal protein sequences, contains a 2 loop virtually identical to animal α -NAGALs (FIG. 7, yellow). We predict this enzyme is primarily an α -NAGAL with partial α -GAL activity, much like human α -NAGAL, which was originally thought to be an α -GAL based upon similar activity (Dean, K. J., et al., *Biochem. Biophys. Res. Commun.*, 1977, 77:1411-7; Schram, A. W., et al., *Biochim. Biophys. Acta*, 1977, 482:138-44).

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Although human α -GAL makes contacts to each functional group on the α -galactose ligand, the enzyme shows little specificity for the distal portion of the substrate beyond the glycosidic linkage, and the active site cleft is found in a broad opening on the concave surface of the enzyme (FIG. 6c). The lack of substrate specificity of human α -GAL beyond the terminal α -galactose differs slightly from the specificity of other α -GALs, which act only upon substrates containing terminal α 1-6 galactose groups (Kim,W.D., et al., *Phytochemistry*, 2002, 61:621-30). This increased specificity of plant α -GALs may derive from their monomeric structure, as residues buried in the dimer interface of animal α -GALs (e.g., those on the β 1- α 1 loop - Fujimoto, Z., et al., *J Biol Chem*, 2003, 278:20313-8) are available for ligand recognition in monomeric α -GALs.

Both α -GALs and α -NAGALs are α retaining exoglycosidases, where both the substrate and product of the catalytic reactions are α anomers at the 1 position on the galactose ring. This retention of anomeric configuration is accomplished by a double displacement catalytic mechanism where the anomeric carbon undergoes two successive nucleophilic attacks (Vasella, A., et al., *Curr Opin Chem Biol*, 2002, 6:619-29). The two sequential inversions of the anomeric carbon lead to retention of the configuration at the end of the catalytic cycle. In two α -GALs from different species, peptic digestion of covalently trapped intermediates has identified the specific aspartic acid acting as the catalytic nucleophile (Hart, D. O., et al., *Biochemistry*, 2000, 39:9826-36; Ly, H. D., et al., *Carbohydr. Res.*, 2000, 329:539-47). These data, combined with the high resolution structure of chicken α -NAGAL, predict the catalytic mechanism of human α -GAL. In human α -GAL, the first nucleophilic attack upon the substrate comes from D170, cleaving the glycosidic linkage and

leading to a covalent enzyme-intermediate complex. In the second step of the reaction, a water molecule (deprotonated by D231) attacks C1 of the covalent intermediate, liberating the second half of the catalytic product and regenerating the enzyme in its initial state. Human α -GAL operates most efficiently at low pH, consistent with its highly acidic composition and its lysosomal location.

Retaining glycosidases typically have distances of 5-6Å between catalytic carboxylates, while inverting glycosidases typically have distances of 9-11Å between these residues (McCarter, J. D. & Withers, S. G., Curr. Opin. Struct. Biol. 1994, 4:885-92). From these distances, it has been possible to reliably predict the mechanism and function of a glycosidase given its structure. However, this rule must be reconsidered in light of the new structures in the α-GAL/α-NAGAL family: for the known structures in the family, the closest approach of the two catalytic carboxylates is 6.5-7Å, among the largest distances seen for retaining glycosidases.

Comparison to related molecules

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Human α -GAL is most closely related to α -NAGAL, with the human enzymes sharing 49% amino acid sequence identity. A phylogeny tree (FIG. 7) of the 40 proteins most closely related to human α -GAL reveals that vertebrate α -GAL and α -NAGAL cluster and have evolved from a common precursor (Wang, A. M., et al., *J. Biol. Chem.*, 1990, 265:21859-66; Wang, A. M., et al., *Mol. Genet. Metab.*, 1998, 65:165-73), while plant and other α -GALs segregate into distinct clusters. The 40 proteins share from 32 to 78% amino acid sequence identity with human α -GAL, with the sequence conservation higher in domain 1, particularly among residues forming the active site.

The 40 sequences include two structures of a family of 27 glycoside hydrolases: human α -GAL and chicken α -NAGAL (Garman, S. C., et al., *Structure*, 2002, 10:425-434) (51% amino acid identity with human α -GAL). Both enzymes share common tertiary structures: each monomer contains both a $(\beta/\alpha)_8$ N-terminal domain and an antiparallel β C-terminal domain. The N-terminal domains superimpose very well: the chicken α -NAGAL superimposes on the human α -GAL with a root mean square deviation (RMSD) of 0.7Å for 295 C α atoms. Domain 2, with lower sequence conservation, superimposes less well: the chicken domain superimposes on human with an RMSD of 1.3Å for 80 C α atoms. The most important residue in the dimer interface, F273, has 130Å² surface area buried per monomer

upon formation of the dimer. This residue alone (out of the 30 in the dimer interface) accounts for 12% of the buried surface area in the interface. This residue is a Phe or Tyr in most animal α -GALs and α -NAGALs, while in plant α -GALs, the equivalent residue is a Gly. Thus, this residue predicts the dimerization state of the enzyme in different species: Phe or Tyr indicates the enzyme is a dimer, while Gly indicates the enzyme remains a monomer.

N-linked carbohydrate and lysosomal targeting

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Both endogenous and recombinant α-GAL show a large amount of heterogeneity in the attached carbohydrate, with over 70 different glycoforms (Lee, K., et al., Glycobiology, 2003, 13:305-13; Bishop, D. F. & Desnick, R. J., J Biol Chem, 1981, 256:1307-16; Matsuura, F., et al., Glycobiology, 1998, 8:329-39; LeDonne, N. C., et al., Arch Biochem Biophys, 1983, 224:186-95; Ioannou, Y. A., et al., Biochem J., 1998, 332:789-97). Despite the resolution of the human α -GAL structure, extensive density appears for N-linked carbohydrates. Each monomer has four potential N-linked carbohydrate attachment sites (N139, N192, N215, and N408), the first three of which show carbohydrate electron density. The fourth potential site at N408 contains the amino acid sequence Asn-Pro-Thr, a sequence not ordinarily recognized by the carbohydrate attachment machinery (Gavel, Y. & von Heijne, G., Protein Eng. 1990, 3:433-42), consistent with the absence of carbohydrate at this location in recombinant α -GAL expressed in COS cells (Ioannou, Y. A., et al., Biochem J., 1998, 332:789-97), CHO cells and human cells (Lee, K., et al., Glycobiology, 2003, 13:305-13). The three sites with attached carbohydrate show density in both independent monomers in the asymmetric unit and in both the native and ligand-soaked crystals. Electron density for the carbohydrate attached to N192 is shown in FIG. 9.

The glycosylation pattern differs among the structures in the α -GAL/ α -NAGAL family. The chicken α -NAGAL and human α -GAL each contain three sites, two of which (N192 and N215 in α -GAL numbering) are in common. These two carbohydrates are attached to helices α 4 and α 5, away from the active site and from the dimer interface. The N-linked carbohydrate at N215 is necessary but not sufficient for successful secretion of the active enzyme, and the N192 carbohydrate site improves secretion of the active enzyme (Ioannou, Y. A., et al., *Biochem J.*, 1998, 332:789-97). These two sites have a large proportion of oligomannose-containing carbohydrate, while the N139 site contains no oligomannosyl carbohydrate, only complex carbohydrate (Lee, K., et al., *Glycobiology*, 2003, 13:305-13). Thus the N-linked carbohydrate at N192 and N215 is responsible for targeting

the glycoprotein to the lysosome, because only oligomannosyl carbohydrates contain the lysosomal targeting signal, mannose-6-phosphate (Ghosh, P., et al., Nat Rev Mol Cell Biol, 2003, 4:202-12). The N192 and N215 side chains are 20Å apart on the same face of the molecule, 24 and 23Å away from the active site respectively (FIG. 6d). Unlike many Nlinked carbohydrates that lie along the surface of the protein and shield surface-exposed hydrophobic residues, the carbohydrate at N215 extends away from the protein, in an ideal position to bind to the mannose-6-phosphate receptor (M6PR). Mutation of N215 to Ser eliminates the carbohydrate attachment site, causing inefficient trafficking of the enzyme to the lysosome (Ioannou, Y. A., et al., Biochem J., 1998, 332:789-97) and leading ultimately to the development of Fabry disease (Davies, J. P., et al., Hum Mol Genet, 1993, 2:1051-3). Unique among the carbohydrate attachment sites, N215 shows different primary glycoforms in the two recombinant enzymes used as Fabry disease treatments: in Replagal this site is mostly singly phosphorylated oligomannose, while in Fabrazyme this site is mostly biphosphorylated oligomannose (Lee, K., et al., Glycobiology, 2003, 13:305-13). The M6PR transport pathway is also used by the recombinant glycoprotein in the treatment for Fabry disease: upon injection into the bloodstream of a Fabry patient, the recombinant glycoprotein is delivered into the lysosomes of affected cells via M6PR on the surface. The pharmacological differences between the Replagal and Fabrazyme α-GAL preparations derive from the different glycoforms attached to N192 and N215.

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Detailed Description of the Drawings

Figure 1. Atomic structure coordinates of human α-GAL

Figure 1A through 1Z list the atomic structure coordinates for human α -GAL as derived by X-ray diffraction from a crystal of human α -GAL. The following abbreviations are used in FIG. 1: "Atom type" refers to the element whose coordinates are measured. The first letter in the column defines the element.

"X, Y, Z" crystallographically define the atomic position of the element measured.

"OCC" is an occupancy factor that refers to the fraction of the molecules in which each atom occupies the position specified by the coordinates. A value of "1" indicates that each atom has the same conformation, i.e., the same position, in all molecules of the crystal.

"B" is a thermal factor that measures movement of the atom around its atomic center.

Figure 2. Computer Diagram

Computer used to generate a three-dimensional graphical representation of a molecule or molecular complex according to this invention.

- Figure 3. Cross section of a magnetic storage medium.
- Figure 4. Cross section of an optically-readable data storage medium.
- 5 Figure 5. The reaction catalyzed by α -GAL
 - (a) The general reaction of α -GAL. A terminal galactose in the α anomeric configuration is cleaved from an oligosaccharide, glycoprotein, or glycolipid, producing α -galactose (Gal(α 1)) and an alcohol. The carbons are numbered on α -galactose. (b) α -GAL and Fabry disease. The Fabry disease substrate globotriaosylceramide is cleaved by α -GAL to form lactosylceramide. In the absence of the functional enzyme, globotriaosylceramide accumulates in the tissues.

Figure 6. The structure of α -GAL

(a) The α -GAL monomer. The monomer is colored from N (blue) to C terminus (red). Domain 1 contains the active site at the center of the β strands in the $(\beta/\alpha)_8$ barrel, while domain 2 contains antiparallel β strands. The galactose ligand is shown in yellow and red CPK atoms. (b) and (c) Two views of the α -GAL dimer. The ribbon and ligand are colored as in (a). The active sites are 50Å apart in the dimer, on the concave surface of the molecule as viewed from the side in (c). (d) The surface of α -GAL. Two views of the molecular surface are shown with a probe radius of 1.4Å, with the electrostatic surface potential plotted from – 10kT (red) to +10kT (blue). The N-linked carbohydrate is shown in green and is not included in the surface potential calculation. The orientation at left is similar to (b).

Figure 7. Evolutionary relationships in the α -GAL/ α -NAGAL family

A phylogeny tree demonstrates the relationships of 40 sequences most closely related to human α -GAL. The length of the line connecting each name represents the distance between the two sequences. The sequences above the black line have an insertion creating a turn of helix in the $\beta 5/\alpha 5$ loop, while the lower sequences lack this insertion. α -NAGALs are in yellow, while α -GALs are in green, blue and purple.

Figure 8. The active site of \alpha-GAL

(a) and (b) Electron density in human α -GAL from native and galactose-soaked crystals. The electron density is shown in stereo contoured at 1.1 σ from a σ_A -weighted simulated annealing composite omit map, with side chains from active site residues colored as in fig 6. The red density does not derive from the protein and is interpreted as an ethylene glycol

molecule in (a) and the catalytic product galactose in (b). In (c) the superimposed active sites of human α -GAL (green), and chicken α -NAGAL (yellow) are shown in stereo. The β 5- α 5 loop that differs among the two structures appears at lower right.

Figure 9. N-linked carbohydrate

The N-linked carbohydrate attached to N192 is shown with helix α4. Electron density from a σ_A-weighted simulated annealing composite omit map (grey) is contoured at 1.1σ. Five sugar residues have been built into the electron density at this site.

Figure 10. The active site of α -GAL

A schematic representation of the human α -GAL active site with a galactose molecule buried within.

Equivalents

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Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

All references disclosed herein are incorporated by reference in their entirety. What is claimed is presented below and is followed by a Sequence Listing.

We claim:

Claims

- 1. A computer for producing a three-dimensional representation of:
 - a. a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by structure coordinates of human α-galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1; or
 - b. a homologue of said molecule or molecular complex, wherein said homologue comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
- (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure coordinates of human α-galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1;
- (ii) a working memory for storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computerreadable data storage medium for processing said computer-machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said threedimensional representation.
- 2. The computer according to claim 1, wherein the computer produces a three-dimensional representation of:
- a. a molecule or molecular complex defined by structure coordinates of all of the human α -galactosidase amino acids set forth in FIG. 1, or

b. a homologue of said molecule or molecular complex, wherein said homologue comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and

wherein said computer readable data contains the coordinates of all of the human α -galactosidase amino acids set forth in FIG. 1.

- 3. A computer for determining at least a portion of the structure coordinates corresponding to X-ray diffraction data obtained from a molecule or molecular complex, wherein said computer comprises:
- (a) a computer-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structural coordinates of human α-galactosidase according to FIG. 1;
- (b) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises X-ray diffraction data obtained from said molecule or molecular complex;
- (c) a working memory for storing instructions for processing said computer-readable data of (a) and (b);
- (d) a central-processing unit coupled to said working memory and to said computerreadable data storage medium of (a) and (b) for performing a Fourier transform of the machine readable data of (a) and for processing said computer-readable data of (b) into structure coordinates; and
- (e) a display coupled to said central-processing unit for displaying said structure coordinates of said molecule or molecular complex.
- 4. The computer according to claim 3, wherein said molecule or molecular complex comprises a polypeptide having α-galactosidase activity.

- 5. A method for evaluating the potential of a chemical entity to associate with:
- a) a molecule or molecular complex comprising a binding pocket defined by structure coordinates of human α-galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1, or
- b) a homologue of said molecule or molecular complex, wherein said homologue comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å comprising the steps of:
- i) employing computational means to perform a fitting operation between the chemical entity and a binding pocket defined by structure coordinates of human α-galactosidase amino acids W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1 ± a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and
- ii) analyzing the results of said fitting operation to quantify the association between the chemical entity and the binding pocket.
- 6. The method according to claim 5, wherein the method evaluates the potential of a chemical entity to associate with:
- a. defined by structure coordinates of all of the human α -galactosidase amino acids, as set forth in FIG. 1, or
- b. a homologue of said molecule or molecular complex having a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å.
- 7. A method for identifying a potential agonist or antagonist of a molecule comprising a human α-galactosidase domain 1-like binding pocket comprising the steps of:
- a. using the atomic coordinates of W47, D92, D93, Y134, C142, K168, D170, E203, L206, Y207, R227, D231, D266, and M267, according to FIG. 1 ± a root mean square

deviation from the backbone atoms of said amino acids of not more than 1.5 Å, to generate a three-dimensional structure of molecule comprising a human α -galactosidase domain 1-like binding pocket;

- b. employing said three-dimensional structure to design or select said potential agonist or antagonist;
 - c. synthesizing said agonist or antagonist; and
- d. contacting said agonist or antagonist with said molecule to determine the ability of said potential agonist or antagonist to interact with said molecule.
- 8. The method according to claim 7, wherein in step a., the atomic coordinates of all the amino acids of human α -galactosidase according to FIG. 1 \pm a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å are used.

Abstract

This invention pertains to the X-ray crystal structure of the human α -galactosidase glycoprotein. More specifically, the invention relates to crystallized compositions of human α -galactosidase and to crystallized complexes of human α -galactosidase and its catalytic product α -galactose. The invention further relates to a computer programmed with the structure coordinates of the human α -galactosidase's active site wherein said computer is capable of displaying a three-dimensional representation of that active site. The invention also relates to methods for rational drug design based on the structural data for human α -galactosidase provided on computer readable media, as analyzed on a computer system having suitable computer algorithms.

FIGURE 1

HUMAN α-GALACTOSIDASE COORDINATES

Atom									
ATOM 1 N LEU A 32 -14.824 51.72 124.899 1.00 67.86 C ATOM 2 C AL EU A 32 -16.090 51.128 125.458 1.00 67.86 C ATOM 3 C LEU A 32 -15.906 51.974 126.081 1.00 67.86 C ATOM 4 O LEU A 32 -15.672 50.968 125.180 1.00 67.72 O ATOM 6 C LEU A 32 -15.672 50.968 125.180 1.00 67.72 O ATOM 6 C LEU A 32 -17.218 51.293 124.425 1.00 71.62 C ATOM 6 C LEU A 32 -18.635 52.754 124.999 1.00 76.57 C C ATOM 6 C C LEU A 32 -18.635 52.754 124.999 1.00 76.57 C C ATOM 6 C C LEU A 32 -19.987 32.248 126.129 1.00 1.00 76.57 C C ATOM 8 P A 32 -19.987 32.248 126.129 1.00 1.00 76.57 C C ATOM 8 P A 32 -19.587 32.248 126.129 1.00 1.00 66.28 C ATOM 10 C A ASP A 33 -17.078 49.732 128.061 1.00 66.28 C ATOM 11 C ASP A 33 -17.078 49.732 128.061 1.00 66.28 C ATOM 12 O ASP A 33 -15.429 50.886 129.565 1.00 76.45 C ATOM 13 CB ASP A 33 -15.429 50.886 129.565 1.00 76.45 C ATOM 13 CB ASP A 33 -15.429 50.886 129.565 1.00 76.45 C ATOM 15 ODI ASP A 33 -16.204 48.914 130.682 1.00 92.42 O ATOM 15 ODI ASP A 33 -16.204 48.914 130.682 1.00 92.42 O ATOM 15 ODI ASP A 33 -16.204 48.914 130.682 1.00 99.48 C ATOM 15 ODI ASP A 33 -16.204 48.914 130.682 1.00 99.48 C ATOM 15 ODI ASP A 33 -16.204 48.914 130.682 1.00 99.48 C ATOM 15 ODI ASP A 34 -17.268 49.065 126.931 1.00 66.97 N ATOM 15 ODI ASP A 34 -17.268 49.065 126.931 1.00 58.89 C ATOM 15 ODI ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.268 49.065 126.931 1.00 90.95 C ATOM 19 C ASP A 34 -17.269 49.069 123.199 1.00 44.58 C ATOM 19 C ASP A 34 -17.269 49.069 123.199 1.00 44.58 C ATOM 19 C ASP A 34 -17.269 49.069 123.199 1.00 44.58 C ATOM 19 C ASP A 34 -17.269 49.069 123.199 1.00 44.58 C ATOM 19 C ASP A 34 -17.269 49.069 123.199 1.00 44.58 C ATOM 19 C ASP A 34 -17.269 49.069 123	CHAIN A								
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ATOM 67 N THR A 41 -10.254 47.294 116.219 1.00 30.56 N ATOM 68 CA THR A 41 -11.235 46.536 115.417 1.00 22.13 C ATOM 69 C THR A 41 -10.684 46.192 114.045 1.00 21.75 C ATOM 70 O THR A 41 -10.020 47.020 113.423 1.00 17.46 O ATOM 71 CB THR A 41 -12.506 47.147 115.152 1.00 18.74 C									C
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ATOH 70 O THR A 41 -10.020 47.020 113.423 1.00 17.46 O ATOH 71 CB THR A 41 -12.506 47.347 115.152 1.00 18.74 C									č
	ATOM	70	0	THR A	41	-10.020	47.020 113.423	1.00 17.46	0
ATOM /2 OG1 THR A 41 -12.901 48.035 116.348 1.00 29.21 0									
	ATOM	12	OGI	THR A	41	-12.901	40.033 110.348	1.00 29.21	U

MOTA	73	CG2	THR A	A 41	-13.626	46.428	114.666	1.00 3.31	С
MOTA	74	N	MET /		-10.967		113.561	1.00 27.61	N
MOTA	75	CA	MET /	A 42	-10.486		112.234	1.00 31.65	С
MOTA	76	С	MET /	4 4 2	-11.646	44.195	111.330	1.00 32.03	С
ATOM	77	0	MET A		-12.479	43.360	111.701	1.00 37.57	0
MOTA	78	CB	MET A		-9.539		112.342	1.00 37.02	С
MOTA	79	CG	MET /		-8.362		113.237	1.00 32.14	Č
MOTA	80	SD	MET A		-7.217		113.180	1.00 27.50	S
MOTA	81	CE	MET A		-6.528		111.547	1.00 31.36	C
MOTA	82 83	N CA	GLY A		-11.696		110.144	1.00 19.78	N
MOTA MOTA	84	C	GLY A		-12.767 -12.606		109.215	1.00 24.08	C C
ATOM	85	ŏ	GLY A		-11.502		107.848	1.00 26.38	Ö
MOTA	86	N	TRP A		-13.725		107.145	1.00 20.58	N
ATOM	87	CA	TRP A		-13.751		105.799	1.00 18.47	Ċ
MOTA	88	Ċ	TRP A		-14.863		105.710	1.00 19.26	č
ATOM	89	0	TRP /		-15.935		106.301	1.00 22.29	Ö
ATOM	90	CB	TRP A	A 44	-14.015		104.763	1.00 13.98	С
MOTA	91	CG	TRP A	A 44	-13.961	45.185	103.320	1.00 28.86	С
MOTA	92		TRP A		-12.841		102.547	1.00 43.13	С
MOTA	93		TRP A		-15.074		102.465	1.00 29.85	C
MOTA	94		TRP A		-13.186		101.265	1.00 44.22	N
MOTA	95		TRP A		-14.550		101.187	1.00 38.52	c
MOTA	96		TRP A		-16.461		102.653	1.00 19.33	c c
MOTA MOTA	97 98		TRP A		-15.367 -17.274		100.102	1.00 39.43	c
ATOM	99		TRP /		-16.723		100.318	1.00 40.64	č
ATOM	100	N	LEU A		-14.609		104.951	1.00 15.68	Ñ
ATOM	101	CA	LEU A		-15.583		104.806	1.00 8.20	Ċ
ATOM	102	Č	LEU /		-15.575		103.344	1.00 8.64	C
ATOM	103	0	LEU A		-14.552		102.779	1.00 5.90	0
MOTA	104	СВ	LEU A	A 45	-15.198	50.158	105.694	1.00 3.31	С
ATOM	105	CG	LEU /		-16.294		106.050	1.00 5.81	Ç
MOTA	106		LEU A		-15.648		106.684	1.00 12.88	C
MOTA	107		LEU /		-17.052		104.820	1.00 21.03	C
ATOM	108	N	HIS A		-16.745		102.744	1.00 3.31	N C
MOTA	109	CA	HIS A		-16.919		101.340	1.00 11.17	c
MOTA MOTA	110 111	C 0	HIS A		-16.579 -16.281	51.157	100.856 99.675	1.00 21.93	Ö
ATOM	112	СВ	HIS A		-18.364		100.942	1.00 11.81	č
ATOM	113	CG	HIS A		-19.281		101.003	1.00 28.93	č
ATOM	114		HIS A		-19.351	51.374	99.996	1.00 35.79	N
ATOM	115		HIS A		-20.150		101.958	1.00 28.46	С
ATOM	116	CEl	HIS A	A 46	-20.224	52.309	100.328	1.00 32.31	С
ATOM	117	NE2	HIS A	A 46	-20.723	52.011	101.514	1.00 19.72	N
ATOM	118	N	TRP /		-16.598		101.733	1.00 19.43	N
ATOM	119	CA	TRP /		-16.373		101.260	1.00 18.18	C
ATOM	120	Ç	TRP /		-15.325		100.182	1.00 19.31	C
MOTA	121	0	TRP /		-15.664	53.759	99.003 102.419	1.00 17.77 1.00 23.78	Ċ
ATOM ATOM	122 123	CB CG	TRP /		-16.176 -16.419		102.419	1.00 38.36	Ċ
ATOM	124		TRP A		-15.536		101.925	1.00 46.06	č
ATOM	125		TRP /		-17.605		101.287	1.00 40.43	ċ
MOTA	126		TRP /		-16.096		101.302	1.00 47.00	N
ATOM	127		TRP A		-17.367		100.901	1.00 44.04	С
MOTA	128	CE3	TRP /	A 47	-18.847	55.633	100.991	1.00 40.44	С
MOTA	129		TRP A		-18.323		100.235	1.00 45.58	C
MOTA	130		TRP /		-19.797		100.329	1.00 44.04	C
ATOM	131		TRP A		-19.528	57.721	99.958	1.00 42.42	C
MOTA	132	N	GLU /		-14.068		100.568 99.590	1.00 13.66 1.00 6.43	N C
ATOM ATOM	133 134	CA C	GLU /		-13.046 -13.071	54.186 53.427	98.260	1.00 6.43 1.00 5.74	č
ATOM	135	ŏ	GLU /		-12.909	54.026	97.206	1.00 7.32	ŏ
ATOM	136	СB	GLU A		-11.640		100.210	1.00 3.31	č
MOTA	137	CG	GLU /		-10.500	54.771	99.396	1.00 10.31	С
ATOM	138	CD	GLU A		-10.188	54.109	98.042	1.00 23.63	c
MOTA	139	OE1	GLU /	A 48	-9.778	52.930	98.018	1.00 28.74	0
MOTA	140	QE2	GLU /	48	-10.342	54.773	96.996	1.00 34.69	0
ATOM	141	N	ARG A		-13.279	52.119	98.302	1.00 9.77	N
ATOM	142	CA	ARG /		-13.258	51.319	97.085	1.00 18.71	C
MOTA	143	Ç	ARG A		-14.505	51.367	96.218	1.00 23.25	c
MOTA	144	0	ARG A		-14.441 -12.947	51.101 49.865	95.016	1.00 23.40 1.00 28.83	o C
MOTA MOTA	145 146	CB CG	ARG A		-12.547	48.983	97.440 96.244	1.00 28.83	c
ATOM	147	CD	ARG A		-11.610	49.585	95.354	1.00 50.93	č
ATOM	148	NE	ARG A		-11.077	48.596	94.424	1.00 62.30	Ň
ATOM	149	CZ	ARG A		-11.745	48.111	93.385	1.00 65.06	C
ATOM	150		ARG A		-12.977	48.537	93.130	1.00 53.20	N
ATOM	151		ARG A		-11.193	47.173	92.623	1.00 68.57	N
MOTA	152	N	PHE A		-15.633	51.721	96.819	1.00 18.53	N
ATOM	153	CA	PHE A	A 50	-16.885	51.752	96.083	1.00 19.91	С

MOTA	154	С	PHE A	50	-17.715	53.015	96.252	1.00 25.78	С
MOTA	155	0	PHE A	50	-18.749	53.184	95.609	1.00 30.56	0
ATOM	156	CB	PHE A	50	-17.694	50.526	96.479	1.00 3.31	С
ATOM	157	CG	PHE A	50	-17.037	49.234	96.080	1.00 3.31	С
ATOM	158			50	-17.210	48.700	94.796	1.00 7.11	С
ATOM	159		PHE A	50	-16.200	48.575	96.966	1.00 3.31	С
ATOM	160	CEI	PHE A	50	-16.553	47.530	94.414	1.00 3.31	С
MOTA	161		PHE A	50	-15.534	47.397	96.588	1.00 3.31	č
			PHE A		-15.714	46.877	95.309	1.00 3.31	č
ATOM	162	CZ		50					N
ATOM	163	N	MET A	51	-17.256	53.908	97.113	1.00 30.81	č
MOTA	164	ÇA	MET A	51	-17.967	55.151	97.352	1.00 35.74	
MOTA	165	C	MET A	51	-19.474	54.972	97.329	1.00 38.71	C
MOTA	166	0	MET A	51	-20.002	53.965	97.796	1.00 44.46	0
MOTA	167	СВ	MET A	51	-17.583	56.181	96.310	1.00 32.16	C
ATOM	168	CG	MET A	51	-16.111	56.360	96.182	1.00 40.30	С
ATOM	169	SD	MET A	51	-15.828	57.763	95.156	1.00 60.82	s
ATOM	170	CE	MET A	51	-15.519	58.994	96.400	1.00 60.08	С
ATOM	171	N	CYS A	52	-20.162	55.956	96.766	1.00 43.24	N
ATOM	172	CA	CYS A	52	-21.611	55.932	96.714	1.00 50.44	С
MOTA	173	C	CYS A	52	-22.094	55.641	95.314	1.00 52.54	С
ATOM	174	ō	CYS A	52	-22.673	56.497	94.651	1.00 51.59	Ō
	175	СB	CYS A	52	-22.162	57.276	97.189	1.00 53.51	Ċ
ATOM			CYS A	52	-23.982	57.393	97.340	1.00 59.52	Š
ATOM	176	SG						1.00 56.99	N
ATOM	177	N	ASN A	53	-21.854	54.417	94.873		Č
ATOM	178	CA	ASN A	53	-22.252	53.988	93.541	1.00 56.33	c
MOTA	179	C	ASN A	53	-23.663	53.399	93.537	1.00 54.88	
MOTA	180	0	ASN A	53	-23.956	52.474	94.291	1.00 51.18	0
MOTA	181	CB	ASN A	53	-21.259	52.952	93.030	1.00 59.71	C
ATOM	182	CG	ASN A	53	-21.564	52.516	91.631	1.00 58.23	c
ATOM	183	OD1	ASN A	53	-22.670	52.053	91.342	1.00 59.65	0
MOTA	184	ND2	ASN A	53	-20.585	52.655	90.745	1.00 60.87	N
ATOM	185	N	LEU A	54	-24.532	53.913	92.675	1.00 57.17	N
MOTA	186	CA	LEU A	54	-25.901	53.418	92.637	1.00 61.04	С
MOTA	187	С	LEU A	54	-26.378	52.881	91.292	1.00 69.48	С
ATOM	188	ō	LEU A	54	-27.422	52.226	91.220	1.00 71.14	0
ATOM	189	СВ	LEU A	54	-26.859	54.518	93.084	1.00 52.43	0000
ATOM	190	CG	LEU A	54	-26.705	55.089	94.490	1.00 47.83	Ċ
ATOM	191		LEU A	54	-25.436	55.905	94.578	1.00 51.83	č
			LEU A	54	-27.904	55.958	94.805	1.00 44.94	č
MOTA	192					53.152	90.233	1.00 78.93	N
ATOM	193	N	ASP A	55	-25.622				, ,
MOTA	194	CA	ASP A	55	-25.995	52.715	88.884	1.00 80.51	C
ATOM	195	C	ASP A	55	-25.857	51.206	88.701	1.00 76.75	Ö
MOTA	196	0	ASP A	55	-24.906	50.731	88.079	1.00 76.16	
ATOM	197	CB	ASP A	55	-25.132	53.451	87.849	1.00 88.95	C
MOTA	198	CG	ASP A	55	-25.697	53.369	86.445	1.00 92.19	č
MOTA	199	OD1	ASP A	55	-25.060	53.916	85.523	1.00 96.75	0
ATOM	200	OD2	ASP A	55	-26.775	52.766	86.262	1.00 89.47	0
ATOM	201	N	CYS A	56	-26.815	50.456	89.230	1.00 76.43	N
ATOM	202	CA	CYS A	56	-26.774	49.010	89.130	1.00 83.63	c c
ATOM	203	С	CYS A	56	-27.229	48.562	87.754	1.00 88.30	С
ATOM	204	ŏ	CYS A	56	-27.532	47.395	87.521	1.00 90.15	0
ATOM	205	ČВ	CYS A	56	-27.630	48.416	90.242	1.00 87.27	С
ATOM	206	SG	CYS A	56	-27.190	49.183	91.844	1.00100.86	S
ATOM	207	N	GLN A	57	-27.244	49.512	86.833	1.00 95.89	N
ATOM	208	CA	GLN A	57	-27.620	49.239	85.460	1.00105.09	c
	209	C		57	-26.373	48.907	84.654	1.00107.10	č
MOTA			GLN A			47.750	84.300	1.00106.26	ŏ
ATOM	210	0	GLN A	57	-26.143	50.454	84.859	1.00100.20	č
ATOM	211	CB	GLN A	57	-28.317				č
MOTA	212	CG	GLN A	57	-29.779	50.532	85.205	1.00117.81	č
MOTA	213	CD	GLN A	57	-30.535	49.342	84.666		
MOTA	214		GLN A	57	-30.548	49.098	83.458	1.00121.05	0
MOTA	215		GLN A	57	-31.161	48.585	85.560	1.00120.88	N
ATOM	216	N	GLU A	58	-25.568	49.929	84.374	1.00107.44	N
MOTA	217	CA	GLU A	58	-24.341	49.763	83.602	1.00102.73	c
ATOM	218	С	GLU A	58	-23.168	49.325	84.469	1.00 92.49	Ċ
ATOM	219	0	GLU A	58	-22.104	48.962	83.968	1.00 97.97	0
MOTA	220	CB	GLU A	58	-23.997	51.069	82.873	1.00106.42	C
ATOM	221	CG	GLU A	58	-24.926	51.375	81.703	1.00115.27	C
MOTA	222	CD	GLU A	58	-24.607	52.688	81.015	1.00121.83	Ç
ATOM	223		GLU A	58	-24.781	53.751	81.646	1.00127.79	0
ATOM	224		GLU A	58	-24.183	52.654	79.840	1.00126.24	0
ATOM	225	N	GLU A	59	-23.370	49.354	85.776	1.00 77.19	N
ATOM	226	CA	GLU A	59	-22.331	48.960	86.707	1.00 71.10	С
ATOM	227	c	GLU A	59	-23.000	48.298	87.890	1.00 64.71	Č
ATOM	228	ŏ	GLU A	59	-23.244	48.926	88.913	1.00 66.37	0
ATOM	229	СВ	GLU A	59	-21.542	50.188	87.145	1.00 79.69	С
MOTA	230	CG	GLU A	59	-20.580	50.696	86.081	1.00 96.00	Č
ATOM	231	CD	GLU A	59	-20.567	52.212	85.968	1.00106.06	C
MOTA	232		GLU A	59	-20.563	52.891	87.019	1.00111.91	ŏ
ATOM	233		GLU A	59	-20.548	52.725	84.826	1.00111.15	ŏ
ATOM	234	N	PRO A	60	-23.326	47.010	87.749	1.00 60.06	N

ATOM	235	CA	PRO	A 6	0	-23.982	46.169	88.754	1.00 63.63		С
ATOM	236	C	PRO			-23.031	45.545	89.774	1.00 67.46		c
MOTA	237	0	PRO	A 6	0	-23.459	45.035	90.819	1.00 63.91		0
MOTA	238	CB	PRO			-24.661	45.112	87.903	1.00 62.40		С
MOTA	239	CG	PRO			-23.633	44.894	86.838	1.00 56.39		C
MOTA	240	CD	PRO			-23.238	46.303	86.459	1.00 58.46		C
MOTA	241	N	ASP			-21.740	45.585	89.469	1.00 70.71		N
MOTA	242	CA	ASP			-20.746	44.999	90.357	1.00 71.23		C
MOTA	243	Ç	ASP			-20.074 -19.496	45.989 45.586	91.298 92.299	1.00 65.01		С 0
MOTA MOTA	244 245	O CB	ASP ASP			-19.690	44.268	89.528	1.00 60.40		c
ATOM	245	CG	ASP			-20.283	43.147	88.695	1.00 89.82		č
MOTA	247		ASP			-20.865	42.211	89.288	1.00 86.48		ŏ
MOTA	248		ASP			-20.169	43.204	87.450	1.00 94.31		ō
MOTA	249	N	SER			-20.137	47.275	90.977	1.00 61.91		N
MOTA	250	CA	SER	A 6	2	-19.533	48.294	91.825	1.00 55.96		С
MOTA	251	C	SER	A 6	2	-20.657	48.915	92.641	1.00 48.78		С
MOTA	252	0	SER			-20.439	49.606	93.629	1.00 48.50		0
MOTA	253	CB	SER			-18.843	49.338	90.954	1.00 62.78		C
MOTA	254	OG	SER			-17.958	48.701	90.047	1.00 64.54		0
ATOM	255	N	CYS			-21.867	48.635	92.181	1.00 36.06		N
MOTA	256 257	CA	CYS CYS	A 6		-23.117 -23.243	49.070 48.574	92.776 94.216	1.00 32.68 1.00 26.28		c c
MOTA MOTA	258	C O		A 6		-22.960	47.419	94.512	1.00 40.86		ò
MOTA	259	ČВ	CYS			-24.244	48.530	91.897	1.00 50.02		č
MOTA	260	SG		A 6		-25.788	47.955	92.660	1.00 84.72		Š
ATOM	261	N	ILE			-23.669	49.460	95.108	1.00 17.87		N
MOTA	262	ÇA	ILE	A 6	4	-23.841	49.138	96.518	1.00 16.03		C
ATOM	263	С	ILE	A 6	4	-25.138	48.357	96.796	1.00 23.75		С
MOTA	264	0		A 6		-26.206	48.950	96.977	1.00 26.05		0
MOTA	265	CB		A 6		-23.856	50.427	97.358	1.00 11.27		C
ATOM	266	CG1		A 6		-22.539	51.180	97.179	1.00 15.20		C
ATOM	267	CG2		A 6		-24.095	50.090 52.490	98.813 97.923	1.00 14.96 1.00 33.05		C C
ATOM ATOM	268 269	N		A 6	5	-22.486 -25.038	47.029	96.852	1.00 33.05		N
ATOM	270	CA	SER			-26.207	46.182	97.095	1.00 35.48		C
ATOM	271	c	SER		5	-25.910	44.988	97.987	1.00 39.53		č
ATOM	272	ō		A · 6		-24.763	44.549	98.102	1.00 46.31		ō
ATOM	273	CB			5	-26.725	45.623	95.786	1.00 42.49		С
ATOM	274	0G	SER	A 6	5	-26.003	44.448	95.475	1.00 57.55	1	0
ATOM	275	N	GLU	A 6	6	-26.964	44.432	98.579	1.00 46.25		N
MOTA	276	ÇA		A 6		-26.808	43.265	99.442	1.00 51.68		C
ATOM	277	C		A 6		-26.093	42.193	98.639	1.00 49.33		C
MOTA	278	0	GLU			-25.391	41.340	99.185	1.00 48.58		0 C
ATOM	279	CB	GLU		6	-28.172 -29.251	42.753	99.939 98.884	1.00 52.13 1.00 60.06		C
ATOM ATOM	280 281	CD	GLU		6	-30.427	41.805	99.368	1.00 66.09		č
ATOM	282		GLU		6	-30.263	40.579	99.520	1.00 60.99		ŏ
ATOM	283		GLU		6	-31.510	42.378	99.611	1.00 70.88		Ō
ATOM	284	N			7	-26.263	42.263	97.325	1.00 50.35		N
ATOM	285	ÇA	LYS	A 6	7	-25.616	41.319	96.441	1.00 59.16		C
ATOM	286	C	LYS	A 6	7	-24.120	41.573	96.569	1.00 50.62		С
ATOM	287	0			7	-23.341	40.637	96.721	1.00 57.82		0
MOTA	288	CB		A 6		-26.108	41.524	95.007	1.00 76.41		C
ATOM	289	CG	LYS		7	-27.591	41.155	94.806	1.00 93.54		C C
ATOM ATOM	290 291	CE	LYS LYS		7 7	-28.450 -27.959	42.296 42.782	94.217 92.844	1.00102.67		Ċ
ATOM	292	NZ	LYS		7	-27.807	41.690	91.845	1.00 98.42		N
MOTA	293	N	LEU		8	-23.719	42.839	96.543	1.00 41.00		N
ATOM	294	CA	LEU		8	-22.304	43.169	96.681	1.00 35.92		С
MOTA	295	С	LEU		8	-21.710	42.564	97.957	1.00 28.69		С
MOTA	296	0	LEU		8	-20.907	41.628	97.913	1.00 30.00		0
ATOM	297	CB	LEU		8	-22.109	44.691	96.683	1.00 37.88		Č
MOTA	298	CG	LEU		8	-20.742	45.295	97.056	1.00 30.06		C
ATOM	299		LEU		8	-19.593	44.472	96.493 96.528	1.00 32.82 1.00 35.84		C C
ATOM	300		LEU		8	-20.684	46.722	99.099	1.00 35.84		N
MOTA MOTA	301 302	N CA	PHE		.9 .9	-22.105 -21.599	43.100	100.374	1.00 29.31		C
ATOM	303	C	PHE		9	-21.635		100.464	1.00 35.20		č
ATOM	304	ŏ	PHE		ģ	-20.617		100.731	1.00 35.73		0
MOTA	305	ĊВ	PHE		9	-22.413	43.197	101.519	1.00 26.29		C
MOTA	306	CG	PHE	A 6	9	-22.200		101.698	1.00 26.15		C
MOTA	307		PHE		9	-21.182		102.522	1.00 24.44		C
MOTA	308	CD2			9	-23.007		101.032	1.00 28.73		c c
MOTA	309		PHE		9	-20.973		102.682	1.00 27.34		č
MOTA MOTA	310		PHE		9	-22.804		101.187	1.00 23.88		c
ATOM	311 312	CZ N	PHE MET		9	-21.786 -22.825		100.240	1.00 43.20		N
ATOM	313	ÇA	MET		0	-23.073		100.287	1.00 47.28		Ċ
ATOM	314	č	MET		Ŏ	-21.931	38.329	99.626	1.00 46.42		C
ATOM	315	ŏ	MET		O.	-21.475		100.107	1.00 49.69		0

MOTA	316	ÇВ	MET A	70	-24.379	38.755 99.563	1.00 43.22	С
ATOM	317	CG	MET A	70	-24.925	37.381 99.864	1.00 46.78	С
								č
MOTA	318	SD	MET A	70	-26.352	36.950 98.839	1.00 70.05	S
MOTA	319	СE	MET A	70	-27.493	38.341 99.190	1.00 58.66	С
MOTA	320	N	GLU A	71	-21.479	38.872 98.505	1.00 43.02	N
MOTA	321	CA	GLU A	71	-20.379	38.282 97.768	1.00 43.81	C
								Č
MOTA	322	С	GLU A	71	-19.153	38.421 98.664	1.00 42.37	С
MOTA	323	0	GLU A	71	-18.559	37.431 99.095	1.00 46.48	0
MOTA	324	CB	GLU A	71	-20.185	39.040 96.454	1.00 52.02	С
								č
ATOM	325	CG	GLU A	71	-19.343	38.314 95.414	1.00 61.53	Č
MOTA	326	CD	GLU A	71	-19.348	39.006 94.047	1.00 67.25	С
MOTA	327	OE1	GLU A	71	-18.665	38.503 93.127	1.00 69.17	0
	328		GLU A	71	-20.034	40.045 93.889	1.00 60.67	Ō
ATOM								
ATOM	329	N	MET A	72	-18.799	39.666 98.952	1.00 39.30	N
ATOM	330	CA	MET A	72	-17.669	39.969 99.807	1.00 40.60	С
ATOM	331	С	MET A	72	-17.607	39.067 101.042	1.00 47.07	С
ATOM	332	0	MET A	72	-16.578	38.441 101.298	1.00 47.00	0
ATOM	333	CB	MET A	72	-17.747	41.430 100.226	1.00 37.04	С
ATOM	334	CG	MET A	72	-17.390	42.385 99.113	1.00 20.85	С
								Š
ATOM	335	SD	MET A	72	-15.643	42.198 98.762	1.00 34.40	
ATOM	336	CE	MET A	72	-15.552	42.658 97.119	1.00 3.31	С
ATOM	337	N	ALA A	73	-18.704	39.004 101.799	1.00 51.91	N
ATOM	338	CA	ALA A	73	-18.796	38.175 103.008	1.00 50.87	C
MOTA	339	С	ALA A	73	-18.268	36.767 102.760	1.00 47.48	Č.
ATOM	340	0	ALA A	73	-17.482	36.222 103.541	1.00 36.90	0
ATOM	341	СВ	ALA A	73	-20.237	38.098 103.464	1.00 61.96	С
				74	-18.740		1.00 48.41	N
MOTA	342	N	GLU A			36.181 101.666		
ATOM	343	ÇA	GLU A	74	-18.331	34.851 101.257	1.00 50.32	С
ATOM	344	С	GLU A	74	-16.810	34.785 101.268	1.00 44.48	С
ATOM	345	ō	GLU A	74	-16.215	33.957 101.959	1.00 35.80	0
								č
MOTA	346	СВ	GLU A	74	-18.844	34.572 99.841	1.00 64.11	С
MOTA	347	CG	GLU A	74	-19.454	33.198 99.656	1.00 88.13	С
ATOM	348	CD	GLU A	74	-18.490	32.075 99.998	1.00104.29	С
				74	-17.493	31.893 99.263	1.00112.61	ō
MOTA	349		GLU A					
ATOM	350	OE2	GLU A	74	-18.733	31.376 101.008	1.00111.41	0
ATOM	351	N	LEU A	75	-16.203	35.687 100.502	1.00 44.39	N
ATOM	352	CA	LEU A	75	-14.754	35.784 100.355	1.00 43.26	С
								č
ATOM	353	С	LEU A	75	-13.938	35.894 101.631	1.00 39.65	Č
ATOM	354	0	LEU A	75	-13.046	35.081 101.861	1.00 42.63	0
ATOM	355	CB	LEU A	75	-14.402	36.965 99.464	1.00 47.71	С
ATOM	356	CG	LEU A	75	-14.719	36.813 97.981	1.00 56.06	C
								č
ATOM	357	CDI	LEU A	75	-16.201	36.526 97.782	1.00 66.62	C C
MOTA	358	CD2	LEU A	75	-14.308	38.085 97.255	1.00 64.54	С
ATOM	359	N	MET A	76	-14.212	36.911 102.441	1.00 34.46	N
ATOM	360	CA	MET A	76	-13.474	37.082 103.685	1.00 32.44	C
ATOM	361	С	MET A	76	-13.219	35.721 104.305	1.00 37.52	С
ATOM	362	0	MET A	76	-12.145	35.464 104.851	1.00 44.32	0
ATOM	363	ČВ	MET A	76	-14.260	37.954 104.653	1.00 28.67	Ċ
								_
ATOM	364	CG	MET A	76	-14.383	39.378 104.182	1.00 27.61	C
ATOM	365	ŞD	MET A	76	-15.332	40.382 105.305	1.00 43.61	S
ATOM	366	CE	MET A	76	-14.098	40.677 106.578	1.00 48.42	С
	367			77	-14.220	34.853 104.196	1.00 41.86	N
ATOM		N	VAL A					
ATOM	368	CA	VAL A	77	-14.145	33.495 104.706	1.00 42.36	С
ATOM	369	С	VAL A	77	-13.260	32.629 103.799	1.00 39.82	С
MOTA	370	0	VAL A	77	-12.404	31.885 104.283	1.00 38.89	0
					-15.545		1.00 41.56	Č
ATOM	371	CB	VAL A	77		32.869 104.764		c c
ATOM	372		VAL A	77	-15.466	31.501 105.407	1.00 43.46	Ċ
ATOM	373	CG2	VAL A	77	-16.499	33.776 105.531	1.00 45.91	Ċ
MOTA	374	N	SER A	78	-13.476	32.750 102.489	1.00 36.14	N
ATOM	375	CA	SER A	78	-12.734	32.010 101.476	1.00 42.45	C
MOTA	376	С	SER A	78	-11.227	32.115 101.584	1.00 46.34	C
MOTA	377	0	SER A	78	-10.578	31.218 102.117	1.00 54.34	0
ATOM	378	CB	SER A	78	-13.152	32.462 100.077	1.00 47.24	С
	379	ŌĞ		78	-14.527	32.205 99.847	1.00 62.25	0
ATOM			SER A				1.00 48.13	N
ATOM	380	N	GLU A	79	-10.660	33.196 101.059		14
ATOM	381	ÇA	GLU A	79	-9.207	33.385 101.098	1.00 49.45	С
ATOM	382	Ċ	GLU A	79	-8.654	33.641 102.504	1.00 47.50	С
	383		GLU A	79	-7.646	34.328 102.681	1.00 44.99	ō
ATOM		0					1.00 51.38	ž
MOTA	384	СВ	GLU A	79	-8.795	34.554 100.201		Č
ATOM	385	CG	GLU A	79	-9.060	34.326 98.722	1.00 58.71	C C
MOTA	386	CD	GLU A	79	-8.227	33.197 98.148	1.00 60.00	С
ATOM	387		GLU A	79	-7.038	33.090 98.515	1.00 66.35	Ŏ
							1.00 54.42	
ATOM	388		GLU A	79	-8.763	32.419 97.332		0
ATOM	389	N	GLY A	80	-9.325	33.071 103.498	1.00 48.14	N
MOTA	390	CA	GLY A	80	-8.893	33.188 104.876	1.00 48.70	С
ATOM	391	c		80	-8.650	34.557 105.470	1.00 46.09	Ċ
			GLY A				1.00 47.24	ŏ
ATOM	392	0	GLY A	80	-7.648	34.760 106.153		
MOTA	393	N	TRP A	81	-9.543	35.504 105.214	1.00 41.67	N
MOTA	394	CA	TRP A	81	-9.399	36.836 105.796	1.00 34.07	С
ATOM	395	c	TRP A	81	-9.847	36.737 107.248	1.00 33.67	С
						37.240 108.160	1.00 32.32	õ
MOTA	396	0	TRP A	81	-9.191	37.240 100.100	1.00 32.36	U

ATOM	397	СВ	TRP A	81	-10.279	37.847 105.056	1.00 18.60	С
ATOM	398	CG	TRP A	81	-9.763	38.170 103.718	1.00 20.67	č
ATOM					-10.200			č
	399		TRP A	81		37.669 102.522	1.00 35.06	~
MOTA	400		TRP A	81	-8.659	39.035 103.416	1.00 23.59	C
ATOM	401		TRP A	81	-9.434	38.170 101.489	1.00 37.21	N
MOTA	402		TRP A	81	-8.483	39.011 102.011	1.00 31.74	č
MOTA	403		TRP A	81	-7.800	39.828 104.197	1.00 25.29	Č
MOTA	404		TRP A	81	-7.480	39.750 101.370	1.00 38.96	С
ATOM	405	CZ3	TRP A	81	-6.805 -6.654	40.561 103.562	1.00 27.92	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ATOM	406	CH2	TRP A	81	-6.654	40.517 102.160	1.00 35.85	С
ATOM	407	N	LYS A	82	-10.973	36.066 107.446	1.00 29.50	N
ATOM	408	CA	LYS A	82	-11.523	35.887 108.769	1.00 25.97	С
ATOM	409	C	LYS A	82	-10.447	35.315 109.671	1.00 31.15	C
ATOM	410	ŏ	LYS A	82	-10.174	35.859 110.734	1.00 15.81	Ö
ATOM	411	ČВ	LYS A	82	-12.719	34.947 108.700	1.00 29.74	č ·
							1.00 24.33	č
MOTA	412	CG	LYS A	82	-13.480	34.802 110.000	1.00 24.58	Č .
MOTA	413	CD	LYS A	82	-14.800	34.104 109.755		C
MOTA	414	CE	LYS A	82	-15.483	33.751 111.052	1.00 35.92	
MOTA	415	NZ	LYS A	82	-14.597	32.898 111.886	1.00 45.25	N
MOTA	416	N	ASP A	83	-14.597 -9.824 -8.767 -7.665	34.231 109.218	1.00 45.47	N
MOTA	417	CA	ASP A	83	-8.767	33.550 109.967	1.00 58.09	С
MOTA	418	С	ASP A	83	-7.665	34.490 110.441	1.00 56.61	С
MOTA	419	0	ASP A	83 83 83	-7.115	34.320 111.530	1.00 59.34	0
ATOM	420	CB	ASP A	83	-8.128	32.452 109.104	1.00 67.45	С
ATOM	421	CG	ASP A	83	-9.122	31.372 108.679	1.00 76.98	С
ATOM	422		ASP A	83 83 84	-8.792	30.616 107.737	1.00 83.43	0
ATOM	423		ASP A	83	-10.218	31.272 109.283	1.00 74.14	0
ATOM	424	N	ALA A	84	-7.336	35.473 109.610	1.00 51.70	N
				84	-6.280	36.423 109.937	1.00 46.56	ĉ
ATOM	425	CA	ALA A			37.464 110.964	1.00 45.48	č
ATOM	426	Ç	ALA A	84 84	-6.711			Ö
ATOM	427	0	ALA A		-5.875	38.059 111.629	1.00 38.08	
ATOM	428	CB	ALA A	84	-5.783	37.107 108.664	1.00 50.31	C
MOTA	429	N	GLY A	85	-8.013	37.690 111.095	1.00 45.96	N
ATOM	430	CA	GLY A	85	-8.478		1.00 49.30	С
ATOM	431	С	GLY A	85	-9.677	39.515 111.673	1.00 45.07	С
ATOM	432	0	GLY A	85	-10.546	39.805 112.504	1.00 39.93	0
MOTA	433	N	TYR A	86	-9.723	39.935 110.412	1.00 44.82	N
ATOM	434	CA	TYR A	86	-10.827	40.757 109.937	1.00 41.82	С
ATOM	435	C	TYR A	86	-12.082	39.964 110.200	1.00 41.30	С
ATOM	436	ŏ	TYR A	86	-12.242	38.860 109.697	1.00 41.51	0
ATOM	437	СB	TYR A	86	-10.655	41.047 108.453	1.00 37.34	Ċ
ATOM	438	CG	TYR A	86	-9.314	41.665 108.163	1.00 38.89	č
ATOM	439		TYR A		-9.104	43.030 108.314	1.00 45.61	č
AIOM	437		TIV W	00	-3.104	43.030 100.314		
N/DOM			MIVE A		0 220	40 070 107 015	1 00 35 07	C
MOTA	440	CD2	TYR A	86	-8.230	40.870 107.815	1.00 35.97	C
MOTA	440 441	CD2 CE1	TYR A	86 86 86	-8.230 -7.841	43.585 108.127	1.00 46.91	C
MOTA MOTA	440 441 442	CD2 CE1 CE2	TYR A	86	-6.965	43.585 108.127 41.413 107.630	1.00 46.91 1.00 39.36	c c
MOTA MOTA MOTA	440 441 442 443	CD2 CE2 CZ	TYR A TYR A TYR A	86 86	-6.965 -6.776	43.585 108.127 41.413 107.630 42.767 107.786	1.00 46.91 1.00 39.36 1.00 45.40	с с с
MOTA MOTA MOTA MOTA	440 441 442 443 444	CD2 CE2 CZ OH	TYR A TYR A TYR A TYR A	86 86 86	-6.965 -6.776 -5.521	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34	C C C
MOTA MOTA MOTA	440 441 442 443 444 445	CD2 CE2 CZ	TYR A TYR A TYR A TYR A GLU A	86 86 86 87	-6.965 -6.776 -5.521 -12.964	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34	C C C O N
MOTA MOTA MOTA MOTA	440 441 442 443 444	CD2 CE2 CZ OH	TYR A TYR A TYR A TYR A	86 86 86 87 87	-6.965 -6.776 -5.521 -12.964 -14.183	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 40.09	C C O N C
MOTA MOTA MOTA MOTA MOTA	440 441 442 443 444 445	CD2 CE1 CE2 CZ OH N	TYR A TYR A TYR A TYR A GLU A	86 86 86 87	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 40.09 1.00 32.92	C C O N C C
MOTA MOTA MOTA ATOM ATOM ATOM	440 441 442 443 444 445 446	CD2 CE1 CE2 OH N CA	TYR A TYR A TYR A TYR A GLU A GLU A	86 86 86 87 87	-6.965 -6.776 -5.521 -12.964 -14.183	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.39 1.00 32.92 1.00 37.99	C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448	CD2 CE1 CE2 CZ OH N CA C	TYR A TYR A TYR A TYR A GLU A GLU A GLU A GLU A	86 86 87 87 87	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 40.09 1.00 32.92	C C O N C C
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	440 441 442 443 444 445 446 447 448 449	CD2 CE1 CE2 CZ OH N CA C	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A	86 86 86 87 87 87	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.39 1.00 32.92 1.00 37.99	C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448 449 450	CD2 CE1 CE2 CZ OH N CA C O CB	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A	86 86 86 87 87 87 87 87	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 40.09 1.00 32.92 1.00 37.99 1.00 52.92	C C O N C C O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448 449 450 451	CD2 CE1 CE2 CZ OH N CA C CB CG CD	TYR A TYR A TYR A GLU A	86 86 87 87 87 87 87	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 40.09 1.00 32.92 1.00 37.99 1.00 52.92	C C C N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448 449 450 451 452	CD2 CE1 CE2 CZ OH N CA C O CB CG CD OE1	TYR A TYR A TYR A GLU A	86 86 87 87 87 87 87 87 87	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.09 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50	C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448 449 450 451 452 453	CD2 CE1 CE2 CZ OH N CA C O CB CG CD OE1 OE2	TYR A TYR A TYR A GLU A	86 86 87 87 87 87 87 87 87	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448 449 450 451 452 453 454	CD2 CE1 CE2 CZ OH N CA C O CB CG CD OE1 OE2 N	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 87 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.59 1.00100.39 1.00 29.14	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 445 451 453 455	CD2 CE1 CE2 CZ OH N CA C O CB CG CD OE1 OE2 N	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 87 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.99 1.00 32.92 1.00 37.99 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 445 451 453 455 455 456	CD2 CE1 CE2 CZ OH N CA C OCB CG CD OE1 OE2 N CA C	TYR A TYR A TYR A GLU A TYR A TYR A	86 86 87 87 87 87 87 87 87 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 32.71	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 4412 4443 4445 4445 4450 4451 4451 4456 4557	CD2 CE1 CE2 CZ OH N CA C OCB CCD OE2 N CA C	TYR A TYR A TYR A TYR A GLU A TYR A TYR A TYR A	86 86 87 87 87 87 87 87 87 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.91 1.00 30.69 1.00 32.71 1.00 34.05	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	441 4443 4445 4445 4445 445 445 445 445 445	CD2 CE1 CE2 CZ OH N CA C O CB CG CD OE1 OE2 N CA C O CB	TYR A TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A TYR A TYR A TYR A	86 86 87 87 87 87 87 87 87 87 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.09 1.00 32.92 1.00 37.99 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 32.71 1.00 34.05 1.00 34.05	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	44123444567 44444444444445567 445567 445567 45567 45567 4559	CD2 CE1 CE2 CZ OH N CA C O CB CG CD OE1 OE2 N CA C O CB CG	TYR A TYR A TYR A GLU A TYR A TYR A TYR A TYR A TYR A	86 86 87 87 87 87 87 87 87 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.662 44.119 111.631 43.888 113.081	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 32.71 1.00 30.05 1.00 20.03	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	44123445674450123455678990	CD2 CE1 CE2 CZ OH CA CO CB CCD OE2 N CA C OCB CD OCB OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB CD OCB OCB OCB OCB OCB OCB OCB OCB OCB OCB	TYR A TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A TYR A TYR A TYR A TYR A TYR A	86 86 87 87 87 87 87 87 87 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 34.05 1.00 20.03 1.00 20.03 1.00 20.03 1.00 20.03	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4412344567 444567 444567 445567 44567 44567 44567 44567 44567 44567 44567 44567 44567 44567 44567 44567	CD2 CE1 CE2 CZ OH N CA C O CB CG CD OE1 OE2 N CA C C C C C C C C C C C C C C C C C	TYR A TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A	86 86 87 87 87 87 87 87 87 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.589	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.59 1.00 32.91 1.00 30.69 1.00 32.71 1.00 34.05 1.00 20.03 1.00 20.03 1.00 18.12 1.00 19.14	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4412344567890123445678901234466789012	CD2 CE1 CE2 CZ OH CA CO CB CCD OE1 OE2 N CA CO CB CCD CD CD CCD CCD CCD CCD CCD CCD CC	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 87 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.585 43.952 114.875	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.99 1.00 32.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 34.05 1.00 30.69 1.00 30.03 1.00 20.03 1.00 20.03 1.00 19.14 1.00 19.29	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	44123445678901234455678901466123	CD2 CE1 CE2 CZ OH N CA C O CB CCD OE1 OE2 N CA C C O CB CCD CD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD2	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 87 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -18.096 -15.843	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.662 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.254 115.321	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.09 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 32.71 1.00 30.69 1.00 30.69 1.00 20.03 1.00 19.14 1.00 19.29 1.00 19.29	000020000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448 451 452 453 454 457 458 460 461 462 463 464	CD2 CE1 CE2 CD N CA C O CB CG CD N CA C O CB CG CD CD CC CC CC CC CC CC CC CC CC CC CC	TYR A TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -15.843 -17.132	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.254 115.321 43.513 115.759	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 32.71 1.00 30.69 1.00 32.71 1.00 30.69 1.00 32.71 1.00 31.05 1.00 20.03 1.00 20.03 1.00 18.12 1.00 19.14 1.00 19.29 1.00 26.80 1.00 26.99	000020000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 449 451 452 453 454 455 456 457 458 461 462 463 464 465	CD2 CE12 CZ OH N CA C O CB CGD OE2 N CA C O CB CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD1	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A	86 86 87 87 87 87 87 87 87 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.466 -17.761 -15.516 -18.096 -17.761 -18.096 -17.448	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.549 44.135 113.549 43.443 113.549 43.443 113.549 43.443 113.549 43.443 113.549 43.443 113.545 43.952 114.875 43.254 115.321 43.513 115.759 43.352 117.088	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.09 1.00 32.92 1.00 37.99 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 32.71 1.00 34.05 1.00 20.03 1.00 20.03 1.00 19.14 1.00 19.29 1.00 26.89 1.00 28.89	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 447 448 451 452 453 454 457 458 460 461 462 463 464	CD2 CE1 CE2 CD N CA C O CB CG CD N CA C O CB CG CD CD CC CC CC CC CC CC CC CC CC CC CC	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -15.843 -17.132 -17.674	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.513 115.759 43.3513 115.759 43.3513 115.759	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.99 1.00 32.92 1.00 37.99 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 32.71 1.00 30.69 1.00 20.03 1.00 20.03 1.00 19.14 1.00 19.29 1.00 26.80 1.00 28.89 1.00 28.89 1.00 28.89 1.00 38.36	200020000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 449 451 452 453 454 455 456 457 458 461 462 463 464 465	CD2 CE12 CZ OH N CA C O CB CGD OE2 N CA C O CB CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD1	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 87 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.448 -17.448 -17.448	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.254 115.321 43.513 115.759 43.352 117.088 43.170 108.741 43.596 107.381	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 30.69 1.00 20.03 1.00 19.19 1.00 19.29 1.00 26.80 1.00 26.80 1.00 28.89 1.00 33.30	020000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 450 451 452 453 454 455 456 461 462 463 464 465 466	CD2 CE1 CE2 CZ OH N CA C O CB CGD OC2 N CA C O CB CCD CD1 CCD CD2 CCD CD2 CD1 CCD CCD CCD CCD CCD CCD CCD CCD CCD	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -15.843 -17.132 -17.674	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.513 115.759 43.3513 115.759 43.3513 115.759	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 32.71 1.00 30.69 1.00 20.03 1.00 20.03 1.00 18.12 1.00 19.14 1.00 19.29 1.00 26.80 1.00 26.89 1.00 26.89 1.00 33.86 1.00 33.366 1.00 33.366 1.00 33.86	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 449 450 451 452 453 454 457 458 460 461 463 464 466 467	CD2 CE12 CZ OH N CA C O CB CCD OE1 OE2 N CA C O CB CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD1	TYR A TYR A TYR A GLU A TYR A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.448 -17.448 -17.448	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.254 115.321 43.513 115.759 43.352 117.088 43.170 108.741 43.596 107.381	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 30.69 1.00 20.03 1.00 19.19 1.00 19.29 1.00 26.80 1.00 26.80 1.00 28.89 1.00 33.30	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 445 451 452 453 454 455 456 461 462 463 464 465 466 467 468	CD2 CE12 CCZ OH N CA C O CB CCD OE2 N CA C O CB CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD2	TYR A TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A LEU A LEU A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.448 -17.674 -18.099 -18.995	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.254 115.321 43.513 115.759 43.352 117.088 43.170 108.741 43.596 107.381 44.750 107.578	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 32.71 1.00 30.69 1.00 32.71 1.00 30.69 1.00 20.03 1.00 20.03 1.00 18.12 1.00 19.14 1.00 19.29 1.00 26.80 1.00 26.89 1.00 26.89 1.00 33.86 1.00 33.366 1.00 33.366 1.00 33.86	002000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 449 450 451 452 453 454 455 456 457 466 467 468 467 468 470	CD2 CE12 CZ OH N CC O CB CCD OE1 OE2 N CA C O CB CCD12 CCE1 CCE2 CZ OH N CA C O CB CCD CD CCE1 CCE2 CCD CCE1 CCE1 CCE1 CCE1 CCE1 CCE1 CCE1 CCE1	TYR A TYR A TYR A GLU A TYR A LEU A LEU A LEU A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.448 -17.448 -17.448 -17.448 -17.448 -17.448	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.549 43.443 113.549 43.4563 115.759 43.552 117.088 43.170 108.741 43.596 107.381 44.750 107.578 44.563 108.146	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.99 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 30.69 1.00 30.69 1.00 30.69 1.00 20.03 1.00 20.03 1.00 19.14 1.00 19.29 1.00 26.80 1.00 28.89 1.00 33.86 1.00 33.86 1.00 30.96	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 450 451 453 454 455 457 458 460 461 462 463 464 465 466 467 468 469 470 471	CD2 CE12 CZ OH NCA CO CB CCD OE2 N CA CO CB CCD CCD CCD CCD CCD CCD CCD CCD CCD	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A LEU A LEU A LEU A LEU A LEU A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -17.761 -15.516 -18.096 -17.7448 -17.448	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.662 44.119 111.631 44.135 113.549 43.443 113.985 43.949 108.662 44.119 111.631 44.135 113.549 43.443 113.985 43.952 114.875 43.254 115.321 43.513 115.759 43.352 117.088 43.170 108.741 43.596 107.381 44.750 107.578 44.563 108.146 42.438 106.619	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 37.99 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 20.03 1.00 19.14 1.00 19.29 1.00 26.80 1.00 26.80 1.00 33.86 1.00 33.86 1.00 33.86 1.00 39.91	000050000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 449 451 452 453 454 455 461 462 463 464 465 466 467 470 471 472	CD2 CE12 CCZ OH N CC O CBC CD1 ON CC O CBC CD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD2	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A LEU A LEU A LEU A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -18.096 -17.448 -17.674 -18.099 -18.995 -20.084 -18.659 -19.039 -17.858	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.352 117.088 43.170 108.741 43.596 107.381 44.750 107.578 44.563 108.746 42.438 106.619 42.609 105.153	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.92 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.39 1.00 29.14 1.00 30.69 1.00 32.71 1.00 34.05 1.00 20.03 1.00 20.03 1.00 19.14 1.00 19.29 1.00 26.89 1.00 28.89 1.00 33.86 1.00 33.86 1.00 33.86 1.00 30.96 1.00 39.91 1.00 28.47 1.00 39.91	000020000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 450 451 452 453 454 455 456 461 462 463 464 467 466 467 468 470 471 472 473	CD2 CE12 CZ OH N CC O CB CCD OE1 OC CD CCD CCD CCD CCD CCD CCD CCD CCD CC	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A LEU A LEU A LEU A LEU A LEU A LEU A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.316 -15.068 -14.373 -15.564 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.432 -17.432 -17.432 -17.674 -18.099 -18.995 -19.039 -17.858 -19.039	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.549 43.443 113.549 43.443 113.549 43.443 113.595 43.513 115.759 43.351 115.759	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 40.92 1.00 32.92 1.00 76.75 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 30.69 1.00 30.69 1.00 30.69 1.00 20.03 1.00 19.14 1.00 19.29 1.00 19.29 1.00 26.80 1.00 28.89 1.00 33.30 1.00 33.30 1.00 33.30 1.00 30.96 1.00 39.91 1.00 48.59	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 450 451 452 453 454 455 456 467 468 467 468 467 471 472 473 474	CD2 CE12 CZ OH N CC O CB CCD OE2 N CA C O CB CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD1	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A LEU A LEU A LEU A LEU A LEU A LEU A CYS A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.448	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.352 117.088 43.170 108.741 43.596 107.381 44.750 107.578 44.563 108.146 42.438 106.619 42.609 105.153 43.148 104.383 41.267 104.587 45.942 107.121	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 30.69 1.00 20.03 1.00 18.12 1.00 19.14 1.00 19.29 1.00 26.80 1.00 28.89 1.00 33.86 1.00 33.86 1.00 33.86 1.00 39.91 1.00 28.47 1.00 39.91 1.00 59.81 1.00 59.81 1.00 59.81 1.00 59.81 1.00 59.85 1.00 31.85	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 447 448 445 451 452 453 454 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475	CD2 CE12 CCZ OH N CA C O CB CCD1 O CCD CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD2	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A LEU A LEU A LEU A LEU A CYS A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.448 -17.674 -18.090 -18.995 -20.084 -18.659 -19.039 -17.858 -19.474	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.254 115.321 43.513 115.759 43.352 117.088 43.170 108.741 43.596 107.381 44.750 107.578 44.563 108.146 42.438 106.619 42.609 105.153 43.148 104.383 41.267 104.587 45.942 107.121 47.092 107.340	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 37.99 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 20.03 1.00 18.12 1.00 19.14 1.00 19.29 1.00 26.89 1.00 26.89 1.00 26.89 1.00 33.86 1.00 33.86 1.00 39.91 1.00 39.91 1.00 39.91 1.00 39.91 1.00 39.91 1.00 39.91 1.00 39.91 1.00 39.91 1.00 39.91 1.00 39.33	0,0000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	440 441 442 443 444 445 446 450 451 452 453 454 455 456 467 468 467 468 467 471 472 473 474	CD2 CE12 CZ OH N CC O CB CCD OE2 N CA C O CB CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD2 CCD1 CCD1	TYR A TYR A TYR A GLU A GLU A GLU A GLU A GLU A GLU A TYR A LEU A LEU A LEU A LEU A LEU A LEU A CYS A	86 86 87 87 87 87 87 87 88 88 88 88 88 88 88	-6.965 -6.776 -5.521 -12.964 -14.183 -15.422 -16.548 -14.041 -15.316 -15.068 -14.373 -15.564 -15.211 -16.313 -16.482 -15.559 -16.109 -16.466 -17.761 -15.516 -18.096 -17.448	43.585 108.127 41.413 107.630 42.767 107.786 43.297 107.606 40.526 111.011 39.836 111.369 40.699 111.219 40.221 111.374 39.339 112.799 38.889 113.460 38.461 114.891 39.206 115.617 37.387 115.294 41.968 110.896 42.908 110.724 43.390 109.285 43.949 108.682 44.119 111.631 43.888 113.081 44.135 113.549 43.443 113.985 43.952 114.875 43.352 117.088 43.170 108.741 43.596 107.381 44.750 107.578 44.563 108.146 42.438 106.619 42.609 105.153 43.148 104.383 41.267 104.587 45.942 107.121	1.00 46.91 1.00 39.36 1.00 45.40 1.00 46.34 1.00 39.34 1.00 32.92 1.00 37.99 1.00 52.92 1.00 76.75 1.00 93.47 1.00100.50 1.00100.39 1.00 29.14 1.00 30.69 1.00 30.69 1.00 20.03 1.00 18.12 1.00 19.14 1.00 19.29 1.00 26.80 1.00 28.89 1.00 33.86 1.00 33.86 1.00 33.86 1.00 39.91 1.00 28.47 1.00 39.91 1.00 59.81 1.00 59.81 1.00 59.81 1.00 59.81 1.00 59.85 1.00 31.85	מטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט

N/DOM	478	CB CYS	A 90	10 000	47 004 100 363	1 00 12 70	^
ATOM				-18.823	47.994 108.362	1.00 32.78	¢
MOTA	479	SG CYS	A 90	-18.214	47.010 109.726	1.00 46.36	S
ATOM	480	N ILE	A 91	-21.140	48.374 106.244	1.00 40.65	N
MOTA	481	CA ILE	A 91	-21.754	49.193 105.223	1.00 38.29	С
ATOM	482	C ILE	A 91	-21.589	50.643 105.610	1.00 39.61	С
							~
ATOM	483	O ILE	A 91	-21.740	51.013 106.774	1.00 41.42	0
ATOM	484	CB ILE	A 91	-23.256	48.938 105.120	1.00 36.59	C
							č
ATOM	485	CG1 ILE		-23.530	47.449 104.971	1.00 40.49	С
ATOM	486	CG2 ILE	A 91	-23.824	49.701 103.943	1.00 32.88	C
ATOM	487	CD1 ILE		-24.996	47.109 105.012	1.00 49.06	C
MOTA	488	N ASP	A 92	-21.284	51.461 104.616	1.00 38.83	N
MOTA	489	CA ASP		-21.113	52.879 104.831	1.00 41.57	C
MOTA	490	C ASP	A 92	-22.311	53.587 104.201	1.00 41.21	C
MOTA	491	O ASP	A 92	-23.258	52.934 103.768	1.00 49.28	0
							Č
ATOM	492	CB ASP		-19.796	53.343 104.207	1.00 42.41	
MOTA	493	CG ASP	A 92	-19.438	54.766 104.596	1.00 43.83	С
ATOM	494	OD1 ASP		-19.865	55.691 103.865	1.00 51.06	0
MOTA	495	OD2 ASP	A 92	-18.750	54.950 105.637	1.00 19.32	0
ATOM	496	N ASP	A 93	-22.266	54.912 104.154	1.00 38.07	N
MOTA	497	CA ASP	A 93	-23.345	55.718 103.600	1.00 37.38	С
MOTA	498	C ASP	A 93	-23.908	55.187 102.283	1.00 33.12	С
MOTA	499	O ASP		-23.263	54.396 101.577	1.00 23.80	0
MOTA	500	CB ASP	A 93	-22.847	57.142 103.381	1.00 40.75	. С
MOTA	501	CG ASP	A 93	-23.949	58.159 103.486	1.00 40.94	С
							ŏ
MOTA	502	OD1 ASP		-25.098	57.826 103.122	1.00 46.78	
ATOM	503	OD2 ASP	A 93	-23.668	59.293 103.930	1.00 44.21	0
ATOM	504	N CYS		-25.128	55.613 101.967	1.00 31.07	N
MOTA	505	CA CYS	A 94	-25.773	55.230 100.714	1.00 33.68	C
MOTA	506	C CYS	A 94	-26.370	53.830 100.663	1.00 29.32	С
							ŏ
MOTA	507	O CYS		-26.602	53.281 99.595	1.00 33.63	
MOTA	508	CB CYS	A 94	-24.777	55.426 99.564	1.00 32.58	С
	509			-24.368	57.192 99.335	1.00 56.68	s
MOTA							
MOTA	510	N TRP	A 95	-26.644	53.261 101.821	1.00 24.27	N
MOTA	511	CA TRP	A 95	-27.224	51.929 101.891	1.00 30.02	С
MOTA	512	C TRP	A 95	-28.720	52.075 102.131	1.00 43.86	С
MOTA	513	O TRP	A 95	-29.482	51.111 101.986	1.00 45.97	0
				-26.646	51.167 103.082	1.00 31.37	С
MOTA	514	CB TRP					
MOTA	515	CG TRP	A 95	-27.041	51.785 104.400	1.00 31.21	С
ATOM	516	CD1 TRP	A 95	-26.362	52.752 105.091	1.00 35.75	С
							Č
MOTA	517	CD2 TRP	A 95	-28.234	51.520 105.152	1.00 30.42	
ATOM	518	NE1 TRP	A 95	-27.058	53.106 106.224	1.00 33.13	N
					52.369 106.284	1.00 34.20	С
MOTA	519	CE2 TRP		-28.212			
MOTA	520	CE3 TRP	А 95	-29.325	50.657 104.975	1.00 38.45	С
ATOM	521	CZ2 TRP	A 95	-29.232	52.369 107.242	1.00 41.21	C
							Ċ
ATOM	522	CZ3 TRP	A 95	-30.344	50.661 105.934	1.00 46.80	
ATOM	523	CH2 TRP	A 95	-30.288	51.515 107.047	1.00 47.81	С
	524	N MET		-29.126	53.279 102.524	1.00 56.48	N
ATOM							
ATOM	525	CA MET	'A 96	-30.514	53.544 102.853	1.00 60.38	С
ATOM	526	C MET	A 96	-31.398	54.078 101.742	1.00 59.84	С
						1.00 53.40	0
ATOM	527	O MET		-30.953	54.774 100.828		
MOTA	528	CB MET	A 96	-30.574	54.498 104.049	1.00 61.17	C
ATOM	529	CG MET	A 96	-29.632	55.693 103.933	1.00 60.98	С
							Š
ATOM	530	SD MET		-29.696	56.754 105.387	1.00 57.31	
ATOM	531	CE MET	A 96	-29.014	55.691 106.626	1.00 49.16	С
				-32.671	53.725 101.839	1.00 59.61	N
ATOM	532						
MOTA	533	CA ALA		-33.664	54.198 100.903	1.00 57.58	Ç
ATOM	534	C ALA	A 97	-33.879	55.656 101.316	1.00 58.35	C
		O ALA		-33.478	56.067 102.405	1.00 63.58	0
ATOM	535						
ATOM	536	CB ALA	A 97	-34.935	53.409 101.058	1.00 59.55	С
MOTA	537	N PRO		-34.501	56.457 100.446	1.00 57.40	N
						1.00 57.23	Ċ
MOTA	538	CA PRO		-34.811	57.880 100.607		
ATOM	539	C PRO	а 98	-35.465	58.376 101.881	1.00 61.14	С
ATOM	540	O PRO		-35.261	59.528 102.252	1.00 62.28	0
							č
MOTA	541	CB PRO		-35.651	58.174 99.389	1.00 60.63	
MOTA	542	CG PRO	A 98	-34.989	57.331 98.364	1.00 68.69	С
ATOM	543	CD PRO		-34.859	56.015 99.092	1.00 59.58	С
MOTA	544	N GLN		-36.275	57.551 102.535	1.00 68.09	N
ATOM	545	CA GLN	A 99	-36.894	57.990 103.784	1.00 73.61	С
ATOM	546			-37.551	56.923 104.630	1.00 75.40	Ċ
ATOM	547	O GLN		-37.772	55.790 104.201	1.00 80.81	0
MOTA	548	CB GLN	A 99	-37.910	59.118 103.550	1.00 80.34	С
				-39.168	58.723 102.815	1.00 89.00	С
ATOM	549						Č
ATOM	550	CD GLN	A 99	-38.941	58.557 101.330	1.00 91.93	С
ATOM	551	OE1 GLN	A 99	-38.264	57.625 100.890	1.00 92.41	0
				-39.498	59.473 100.545	1.00 89.50	N
MOTA	552	NE2 GLN					
MOTA	553		A 100	-37.851	57.345 105.851	1.00 75.98	N
MOTA	554		A 100	-38.464	56.537 106.885	1.00 80.55	С
ATOM			A 100	-39.716	55.842 106.399	1.00 82.57	č
	555						
MOTA	556		A 100	-40.319	56.259 105.414	1.00 80.59	0
ATOM	557	CB ARG	A 100	-38.823	57.435 108.069	1.00 80.70	С
ATOM	558		A 100	-37.709	58.391 108.501	1.00 75.07	Ċ
AL OF	ن د ر	CO ARO	V 100	-31.103	50.351 100.301	1.00 /3.0/	-

ATOM	559	CD	ARG A	100	26 720	F3 336	100 463	1.00 64.10	^
					-36.739		109.462		C
ATOM		NE	ARG A		-35.661		109.876	1.00 52.24	N
ATOM	561	CZ	ARG A	100	-34.704	58.281	110.733	1.00 47.35	С
ATOM	562	NH1	ARG A	100	-34.693	57.066	111.271	1.00 40.85	N
MOTA	563	NH2	ARG A	100	-33.751		111.039	1.00 47.99	N
MOTA		N	ASP A		-40.101		107.103	1.00 86.12	N
ATOM		CA	ASP A		-41.307			1.00 92.31	ĉ
							106.760		Č
ATOM	566	Ç	ASP A		-42.496		107.536	1.00 98.60	С
ATOM	567	0	ASP A	101	-42.369	55.594	108.268	1.00 92.38	0
ATOM	568	CB	ASP A	101	-41.144	52.510	107.023	1.00 88.34	С
ATOM	569	CG	ASP A		-40.924		108.502	1.00 78.93	Ċ
	570		ASP A		-41.624			1.00 78.59	ŏ
ATOM							109.372		
ATOM	571	OD2			-40.062		108.791	1.00 69.58	0
ATOM	572	N	SER A		-43.657		107.347	1.00106.35	N
MOTA	573	CA	SER A	102	-44.866	54.419	108.030	1.00106.95	С
ATOM	574	С	SER A	102	-44.581	54.527	109.520	1.00105.57	С
ATOM	575	0	SER A	102	-45.012		110.180	1.00103.49	0
ATOM	576	CB	SER A		-45.991		107.772	1.00106.67	Ċ
MOTA	577	ŌĞ	SER A		-45.534		107.928	1.00 97.92	ŏ
MOTA	578	N	GLU A		-43.834		110.029	1.00104.74	N
MOTA	579	CA	GLU A		-43.456		111.437	1.00105.44	Ç
MOTA	580	С	GLU A	103	-42.482	54.602	111.787	1.00 99.30	С
ATOM	581	0	GLU A	103	-42.400	55.025	112.936	1.00 97.60	0
MOTA	582	СB	GLU A	103	-42.808		111.733	1.00120.87	С
ATOM	583	ĊĠ	GLU A		-42.725		113.207	1.00138.34	Ċ
ATOM	584	CD	GLU A		-44.085		113.796	1.00149.87	č
ATOM	585		GLU A		-44.777		113.730	1.00156.42	ò
		-							
ATOM	586		GLU A		-44.461		114.830	1.00153.81	0
ATOM	587	N	GLY A		-41.730		110.799	1.00 93.42	N
MOTA	588	CA	GLY A	104	-40.790	56.153	111.053	1.00 86.33	С
ATOM	589	С	GLY A	104	-39.355	55.715	111.299	1.00 80.52	С
ATOM	590	0	GLY A	104	-38.530	56.511	111.741	1.00 76.38	0
ATOM	591	N	ARG A		-39.055		111.023	1.00 74.97	N
ATOM	592	CA	ARG A		-37.701		111.194	1.00 66.50	ċ
									Ċ
ATOM	593	C	ARG A		-37.060		109.821	1.00 62.55	Č
ATOM	594	0	ARG A		-37.726		108.827	1.00 61.70	0
ATOM	595	CB	ARG A		-37.728		111.665	1.00 67.28	С
ATOM	596	CG	ARG A	105	-38.680	52.241	112.790	1.00 71.50	C
ATOM	597	CD	ARG A	105	-38.708	50.774	113.114	1.00 81.08	¢
MOTA	598	NE	ARG A	105	-39.129	50.549	114.489	1.00101.63	N
ATOM	599	CZ	ARG A	105	-39.140	49.361	115.086	1.00112.71	С
MOTA	600		ARG A		-38.755		114.427	1.00117.25	N
MOTA	601		ARG A		-39.529		116.350	1.00120.85	N
ATOM	602	N	LEU A		-35.774		109.743	1.00 57.99	N
	603	CA	LEU A		-35.119		108.449	1.00 53.74	č
ATOM									č
ATOM	604	C	LEU A		-35.525		107.615	1.00 52.72	
ATOM	605	0	LEU A		-36.427		107.966	1.00 59.39	0
MOTA	606	CB	LEU A		-33.618		108.642	1.00 49.89	c
ATOM	607	CG	LEU A		-33.326		109.573	1.00 53.87	C
MOTA	608	CD1	LEU A	106	-32.012		110.288	1.00 56.85	С
MOTA	609	CD2	LEU A	106	-33.332		108.782	1.00 65.81	С
MOTA	610	N	GLN A	107	-34.838	52.353	106.500	1.00 49.03	N
ATOM	611	CA	GLN A	107	-35.108	51.257	105.601	1.00 50.68	С
MOTA	612	Ċ	GLN A		-34.066	51.330	104.529	1.00 47.10	С
ATOM	613	ŏ	GLN A		-33.730		104.059	1.00 46.93	ŏ
ATOM	614	ČВ	GLN A		-36.501		104.990	1.00 64.70	č
					-36.833		104.492	1.00 75.71	č
MOTA	615	CG	GLN A						
ATOM	616	CD	GLN A		-38.271		104.010	1.00 77.30	c
ATOM	617		GLN A		-39.179		104.619	1.00 78.88	0
MOTA	618	NE2	GLN A	107	-38.483	53.660	102.920	1.00 74.52	N
MOTA	619	N	ALA A	108	-33.530	50.174	104.171	1.00 44.21	N
ATOM	620	CA	ALA A		-32.523		103.134	1.00 45.01	С
ATOM	621	c	ALA A		-33.214		101.806	1.00 46.03	C
ATOM	622	ŏ	ALA A		-34.401		101.675	1.00 45.34	ō
MOTA	623	СB	ALA A		-31.853		103.158	1.00 50.26	č
ATOM	624		ASP A		-32.468		100.824	1.00 50.12	N
		N						1.00 58.74	C N
ATOM	625	CA	ASP A		-33.011	51.006	99.495		c
MOTA	626	C	ASP A		-33.751	49.727	99.096	1.00 60.18	Č
ATOM	627	0	ASP A		-33.189	48.636	99.117	1.00 60.68	0
ATOM	628	CB	ASP A		-31.876	51.288	98.524	1.00 65.46	c
MOTA	629	CG	ASP A		-32.368	51.750	97.184	1.00 69.48	Ç
ATOM	630		ASP A		-32.987	52.833	97.132	1.00 77.79	0
ATOM	631	OD2	ASP A	109	-32.134	51.036	96.186	1.00 64.36	0
ATOM	632	N	PRO A		-35.029	49.850	98.725	1.00 63.63	N
ATOM	633	CA	PRO A		-35.869	48.718	98.328	1.00 68.57	С
MOTA	634	c	PRO A		-35.279	47.860	97.227	1.00 68.18	Ċ
ATOM	635	ŏ	PRO A		-35.295	46.633	97.303	1.00 69.60	ŏ
MOTA	636	СB	PRO A		-37.157	49.390	97.871	1.00 72.56	
ATOM	637	CG	PRO A		-37.174	50.668	98.646	1.00 71.02	č
ATOM	638	CD	PRO A		-35.750	51.117	98.532	1.00 68.06	c c c
ATOM	639	N	GLN A		-34.761	48.523	96.201	1.00 69.52	N
	0,7,7	••	JMY A		- 54.701				.,

MOTA	640	CA	GLN A	111	-34.185	47.846	95.047	1.00 69.5	.0	С
MOTA	641	С	GLN A	111	-32.822	47.199	95.308	1.00 65.0	1 (С
ATOM	642	ŏ	GLN A		-32.589	46.057	94.915	1.00 69.5		Õ
		_			-34.075			1.00 77.5		
MOTA	643	CB	GLN A			48.831	93.877			C
MOTA	644	CG	GLN A		-35.379	49.542	93.519	1.00 91.8	6	С
MOTA	645	CD	GLN A	111	-35.797	50.560	94.562	1.00 95.6	6	С
ATOM	646	OEl	GLN A	111	-35.040	51.469	94.889	1.00 97.7	0	0
ATOM	647		GLN A		-37.009	50.415	95.083	1.00 90.7		N
								1.00 57.7		
MOTA	648	N	ARG A		-31.933	47.925	95.979			N
MOTA	649	CA	ARG A	112	-30.598	47.416	96.278	1.00 49.9	1	С
ATOM	650	С	ARG A	112	-30.535	46.547	97.551	1.00 46.9	4 (С
ATOM	651	Ō	ARG A		-29.542	45.863	97.803	1.00 39.8		0
ATOM	652	СВ	ARG A		-29.614	48.597	96.367	1.00 48.6		č
								1.00 49.7		c
ATOM	653	CG	ARG A		-29.482	49.367	95.056		2	_
ATOM	654	CD	ARG A		-28.531	50.554	95.113	1.00 46.1		С
ATOM	655	NE	ARG A	112	-29.063	51.668	95.887	1.00 52.8	1	N
ATOM	656	CZ	ARG A	112	-28.722	51.919	97.144	1.00 68.4	3	С
ATOM	657		ARG A		-27.848	51.127	97.747	1.00 79.0		N
ATOM	658		ARG A		-29.252	52.948	97.801	1.00 75.1		N
MOTA	659	N	PHE A	113	-31.605	46.555	98.339	1.00 50.2		N
ATOM	660	CA	PHE A	113	-31.642	45.774	99.572	1.00 50.7	'1	С
ATOM	661	С	PHE A	113	-33.074	45.326	99.850	1.00 52.9	2	C
ATOM	662	ō	PHE A		-33.640		100.900	1.00 57.2		ō
		_			-31.136			1.00 54.2		č
ATOM	663	CB	PHE A				100.737		4	_
ATOM	664	CG	PHE A		-29.684		100.625	1.00 58.8	19	C
ATOM	665	CD1	PHE A	113	-28.674	46.090	100.823	1.00 59.2	23	С
ATOM	666	CD2	PHE A	113	-29.326	48.334	100.319	1.00 66.3	7	С
MOTA	667		PHE A		-27.327		100.722	1.00 55.5		ċ
					-27.981					č
ATOM	668		PHE A				100.214	1.00 63.9		
ATOM	669	CZ	PHE A		-26.983		100.415	1.00 57.0		С
ATOM	670	N	PRO A	114	-33.669	44.582	98.906	1.00 50.7	'8 i	N
MOTA	671	CA	PRO A	114	-35.027	44.021	98.887	1.00 48.5	0	С
ATOM	672	Ċ	PRO A		-35.381		100.057	1.00 47.7		Č
					-36.490		100.600	1.00 46.1		ŏ
ATOM	673	0	PRO A							
MOTA	674	CB	PRO A		-35.054	43.253	97.581	1.00 50.9	0	С
ATOM	675	ÇG	PRO A	114	-33.655	42.742	97.506	1.00 45.7		C
ATOM	676	CD	PRO A	114	-32.867	43.985	97.826	1.00 47.0	8	С
ATOM	677	N	HIS A		-34.445		100.431	1.00 44.6		N
		CA	-		-34.681		101.545	1.00 53.1		c
ATOM	678		HIS A							
ATOM	679	С	HIS A		-34.580		102.892	1.00 58.5) j	Ç
ATOM	680	0	HIS A	115	-35.210	41.658	103.854	1.00 65.1		0
ATOM	681	CB	HIS A	115	-33.699	40.204	101.489	1.00 47.7	16	С
ATOM	682	CG	HIS A		-33.849		100.268	1.00 46.3		C
	683					38.833		1.00 57.7		N
ATOM			HIS A		-35.061		99.874			
ATOM	684		HIS A		-32.941	38.931	99.359	1.00 42.5		С
ATOM	685	CE1	HIS A	115	-34.894	38.123	98.773	1.00 58.0	00	С
ATOM	686	NE2	HIS A	115	-33.617	38.166	98.440	1.00 53.0)3	N
ATOM	687	N	GLY A		-33.794		102.954	1.00 55.9		N
ATOM	688	CA	GLY A		-33.649		104.193	1.00 49.7		c
ATOM	689	Ç	GLY A		-32.440		105.028	1.00 42.4		C
MOTA	690	0	GLY A	116	-31.990		105.052	1.00 41.5		0
ATOM	691	N	ILE A	117	-31.916	44.529	105.734	1.00 38.3	8	N
ATOM	692	CA	ILE A	117	-30.746	44.318	106.580	1.00 30.9)5	С
ATOM	693	Ċ	ILE A		-30.837		107.412	1.00 35.6	15	Č
MOTA	694	0	ILE A		-30.069		107.194	1.00 40.2		0
MOTA	695	СВ	ILE A		-30.531		107.565	1.00 26.1		C
ATOM	696	CG1	ILE A	117	-30.420	46.783	106.810	1.00 19.8		С
MOTA	697	CG2	ILE A	117	-29.275	45.190	108.344	1.00 16.4	15	С
ATOM	698		ILE A		-29.218		105.923	1.00 3.3		C
ATOM	699	N	ARG A		-31.761		108.375	1.00 39.1		Ň
MOTA	700	CA	ARG A		-31.912		109.239	1.00 49.2		C
ATOM	701	С	ARG A		-31.394		108.531	1.00 53.1		C
ATOM	702	0	ARG A	118	-30.312	40.155	108.835	1.00 56.7		0
MOTA	703	CB	ARG A		-33.369	41.626	109.601	1.00 56.4	1	С
ATOM	704	CG	ARG A		- 33.605		110.201	1.00 62.5	55	Ċ
ATOM	705	CD			-35.066		110.216	1.00 64.7		c
			ARG A							
ATOM	706	NE	ARG A		-35.876		110.985	1.00 78.4		N
ATOM	707	CZ	ARG A		-36.212		110.575	1.00 83.2		С
ATOM	708	NHl	ARG A	118	-35.816		109.389	1.00 85.8		N
ATOM	709	NH2			-36.932		111.363	1.00 85.5		N
ATOM	710	N	GLN A		-32.169		107.568	1.00 51.3		N
ATOM	711	CA					106.843	1.00 49.8		Ċ
			GLN A		-31.766					
MOTA	712	C	GLN A		-30.331		106.368	1.00 46.5		c
		0	GLN A		-29.608		106.468	1.00 53.9		0
MOTA	713	U								
		СВ	GLN A	119	-32.705	38.706	105.681	1.00 53.0		C
MOTA MOTA	713 714	СВ	GLN A							
MOTA MOTA MOTA	713 714 715	CB CG	GLN A GLN A	119	-33.884	37.847	106.104	1.00 62.3	19	С
ATOM ATOM ATOM ATOM	713 714 715 716	CB CD	GLN A GLN A GLN A	119 119	-33.884 -34.912	37.847 37.680	106.104 105.014	1.00 62.3	19 51	c c
ATOM MOTA ATOM ATOM ATOM	713 714 715 716 717	CB CG CD OE1	GLN A GLN A GLN A GLN A	119 119 119	-33.884 -34.912 -34.610	37.847 37.680 37.145	106.104 105.014 103.961	1.00 62.3 1.00 65.6 1.00 72.3	19 51 73	c c o
ATOM ATOM ATOM ATOM ATOM ATOM	713 714 715 716 717 718	CB CD OE1 NE2	GLN A GLN A GLN A GLN A GLN A	119 119 119 119	-33.884 -34.912 -34.610 -36.132	37.847 37.680 37.145 38.136	106.104 105.014 103.961 105.259	1.00 62.3 1.00 65.6 1.00 72.3 1.00 65.9	19 51 73	C C O N
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	713 714 715 716 717 718 719	CB CG CD OE1	GLN A GLN A GLN A GLN A	119 119 119 119	-33.884 -34.912 -34.610 -36.132 -29.904	37.847 37.680 37.145 38.136 40.171	106.104 105.014 103.961 105.259 105.877	1.00 62.3 1.00 65.6 1.00 72.3 1.00 65.9 1.00 38.6	19 51 73 96 54	C C O N N
ATOM ATOM ATOM ATOM ATOM ATOM	713 714 715 716 717 718	CB CD OE1 NE2	GLN A GLN A GLN A GLN A GLN A	119 119 119 119 120	-33.884 -34.912 -34.610 -36.132	37.847 37.680 37.145 38.136 40.171	106.104 105.014 103.961 105.259	1.00 62.3 1.00 65.6 1.00 72.3 1.00 65.9	19 51 73 96 54	C C O N

ATOM	721	С	LEU	Α	120	-27.6	523	39.860	106.580	1.00	23.13	C	:
ATOM	722	0	LEU	Α	120	-26.7	772	38.972	106.436		19.96	O	
ATOM	723	ĊВ	LEU	Α	120	-28.2			105.072		24.63	Č	
ATOM	724	CG	LEU			-26.7			104.710		17.89	č	
			LEU			-26.3			103.496				:
ATOM	725									1.00	3.31	C	:
ATOM	726		LEU			-26.6			104.450		28.71	C	
ATOM	727	N	ALA			-27.8			107.729		20.79	N	
ATOM	728	CA	ALA	Α	121	-27.0	92	40.223	108.943	1.00	30.72	C	:
ATOM	729	С	ALA	Α	121	-27.0)11	38.730	109.224	1.00	38.03	C	:
ATOM	730	0	ALA	Α	121	-25.9	31	38.190	109.460		42.89	O	
MOTA	731	CB	ALA			-27.7			110.134		31.00	Č	
ATOM	732	N	ASN			-28.1			109.190		40.73	Ň	
ATOM	733	CA	ASN			-28.2			109.466		46.05	Ċ	
	734		ASN			-27.2			108.567				
MOTA		C									45.38	C	
ATOM	735	0	ASN			-26.7			109.003		47.50	0	
ATOM	736	СВ	ASN			-29.6			109.319		56.34	C	:
ATOM	737	CG	ASN			-30.6			110.080	1.00	64.60	C	
ATOM	738	OD1	ASN	Α	122	-30.3			111.216	1.00	61.74	0)
ATOM	739	ND2	ASN	A	122	-31.7	762	37.231	109.465	1.00	79.71	N	ł
ATOM	740	N	TYR	Α	123	-27.1	.54	36.272	107.312	1.00	40.88	N	J
MOTA	741	CA	TYR			-26.2			106.413		45.83	C	
MOTA	742	C	TYR			-24.8			106.936		41.18	Ċ	•
ATOM	743	ō	TYR			-24.0			107.163		40.91	ā	
ATOM	744	СВ	TYR			-26.3			104.975		54.03	Č	
												Ċ	
ATOM	745	CG	TYR			-25.4			104.037		62.59		
MOTA	746		TYR			-25.5			103.722		75.25	C	
ATOM	747		TYR			-24.2			103.535		55.30	C	:
ATOM	748	CEI	TYR			-24.6			102.943	1.00	76.30	C	:
	749		TYR			-23.3			102.762		58.81	Ċ	:
ATOM	750	CZ	TYR	A	123	-23.5		34.034	102.468	1.00	71.09	C	:
ATOM	751	OH	TYR	Α	123	~22.5	67	33.369	101.722	1.00	67.72	O	
MOTA	752	N	VAL	Α	124	-24.5		37.113	107.131	1.00	36.55	N	3
ATOM	753	CA	VAL			-23.2			107.648		30.58	Ċ	
ATOM	754	c	VAL			-22.9			108.906		26.95	č	
ATOM	755	ŏ	VAL			-21.7			109.063		21.59	ă	
	756	СВ	VAL									2	:
ATOM						-23.3			108.005		35.31	C	:
ATOM	757		VAL			-21.9			108.313		38.27	Č	-
ATOM	758		VAL			-23.9			106.867		32.66	C	
ATOM	759	N	HIS			-23.8			109.801		25.84	N	
ATOM	760	CA	HIS	Α	125	-23.6		35.807	111.001	1.00	27.43	C	:
ATOM	761	С	HIS	Α	125	-23.4	86	34.325	110.638	1.00	25.94	C	:
ATOM	762	0	HIS	Α	125	-22.5	93	33.642	111.128	1.00	20.70	0)
ATOM	763	CB	HIS	Α	125	-24.7	66	35.988	112.012	1.00	42.27	C	:
MOTA	764	CG	HIS			-24.9			112.466		51.98	C	•
	765		HIS			-23.9			113.049		54.13	N	
	766		HIS			-26.0			112.437		51.03	Ċ	
	767		HIS			-24.4			113.358		49.04	Č	
	768		HIS			-25.7			112.997		47.54	N	
	769	N	SER			-24.3			109.768		23.94	N	
	770	CA	SER			-24.3			109.332		26.69	C	
	771	Ç	SER			-22.9			108.886		28.55	C	:
	772	0	SER			-22.3			109.131		30.63	O	
ATOM	773	CB	SER	Α	126	-25.3	82	32.193	108.258	1.00	20.10	C	:
MOTA	774	OG	SER	Α	126	-25.3	98	30.829	107.874	1.00	25.00	0)
ATOM	775	N	LYS	Α	127	-22.2	98	33.135	108.230	1.00	31.85	N	Į
	776	CA	LYS			-20.9			107.755	1.00	36.73	C	
	777	Č	LYS			-19.8			108.835		36.08	Ċ	
	778	ŏ	LYS			-18.6			108.541		39.60	ō	
	779	ČВ	LYS			-20.6			106.514		33.46	Ġ	
	780	CG	LYS			-21.5			105.342		47.96	č	
	781	CD	LYS			-20.8			104.228		46.23	Č	
	782	CE	LYS			-20.1			104.228		50.82	. c	
	783	NZ				-19.3			104.058		57.29		
			LYS									N	
	784	N	GLY			-20.3			110.070		34.48	N	
	785	CA	GLY			-19.4			111.194		34.06	C	
	786	C	GLY			-18.9			111.378		36.68	C	
	787	0	GLY			-18.2			112.319		35.44	0	
	788	N	LEU			~19.3			110.503		36.41	N	
	789	CA	LEU	Α	129	-18.9			110.591	1.00	33.42	C	:
	790	С	LEU	Α	129	-19.9	21		111.318	1.00	37.65		
ATOM	791	0	LEU			-21.0	29	37.970	111.673	1.00	43.74	0)
	792	CB	LEU			-18.7	01	37.997	109.190	1.00	28.00	C	:
	793	CG	LEU			-17.8			108.435		37.07	C	•
	794		LEU			-17.8			106.945		36.47	Č	:
	795		LEU			-16.4			109.048		31.18	č	•
	796	N	LYS			-19.4			111.534		38.98	Ň	
	797	CA	LYS			-20.3			112.200		38.49	i.	
	798	C	LYS			-20.5			111.232		37.28	Č	
	799	Ö				-19.6			110.530				
			LYS								33.90		
	800	CB	LYS			-19.6			113.489		39.52	C	
ATOM	801	CG	LYS	A	130	-19.2	UZ.	37.0/8	114.370	1.00	50.59	C	•

	003	00	140		120	10 000		050	1 00	co ós	~
MOTA	802	CD	LYS			-19.089		115.858		60.93	c
MOTA	803	CE	LYS			-18.735		116.736		65.02	C
MOTA	804	NZ	LYS			-19.726	37.920	116.647		72.58	N
MOTA	805	N	LEU	Α	131	-21.790	42.237	111.184	1.00	38.70	N
MOTA	806	CA	LEU	Α	131	-22.164	43.331	110.289	1.00	34.94	С
ATOM	807	С	LEU			-22.144		110.935	1.00	33.78	С
MOTA	808	ō	LEU			-22.399		112.136		41.70	ō
	809	СВ	LEU			-23.559				37.94	č
MOTA								109.715			Č
ATOM	810	CG	LEU			-24.239		109.135		37.70	c
MOTA	811		LEU			-23.559		107.839		44.11	С
ATOM	812	CD2	LEU	Α	131	-25.718	44.042	108.905	1.00	49.63	С
ATOM	813	N	GLY	Α	132	-21.861	45.718	110.116	1.00	23.79	N
MOTA	814	CA	GLY	Α	132	-21.821	47.086	110.599	1.00	25.48	С
ATOM	815	С	GLY			-22.558		109.644	1.00	24.70	C
ATOM	816	ō	GLY			-22.493		108.419		24.30	Ō
	817	N	ILE			-23.252		110.198		26.81	N
ATOM										27.58	Ċ
ATOM	818	CA	ILE			-24.004		109.373			Ċ
ATOM	819	C	ILE			-23.593		109.633		22.90	Č
MOTA	820	0	ILE			-23.066		110.695		19.27	0
ATOM	821	CB	ILE			-25.498		109.632		27.23	С
MOTA	822	CG1	ILE	Α	133	-26.298	50.513	108.584	1.00	33.19	Ċ
ATOM	823	CG2	ILE	Α	133	-25.817	50.200	111.044	1.00	35.16	С
MOTA	824	CD1	ILE	Α	133	-26.139	49.956	107.205	1.00	36.23	С
ATOM	825	N	TYR			-23.850		108.641		28.15	N
ATOM	826	CA	TYR			-23.514		108.697		32.08	С
	827	c	TYR			-24.745		109.061		31.58	Č
ATOM						-25.849					ŏ
ATOM	828	0	TYR					108.676		31.09	Č
MOTA	829	CB	TYR			-22.971		107.326		42.18	00000000
ATOM	830	CG	TYR			-22.758		107.114		42.79	Č
MOTA	831	CD1	TYR			-21.473		106.963		51.16	С
ATOM	832	CD2	TYR	Α	134	-23.843	56.383	107.026	1.00	49.28	С
MOTA	833	CE1	TYR	Α	134	-21.281	57.405	106.725	1.00	55.37	С
ATOM	834	CE2	TYR	Α	134	-23.663	57.735	106.791	1.00	53.57	С
ATOM	835	CZ	TYR			-22.383		106.640		53.18	С
ATOM	836	ОН	TYR			-22.224		106.398		60.11	ō
ATOM	837	N	ALA			-24.552		109.798		31.65	N
						-25.657		110.200	1.00	34.85	Ċ
ATOM	838	CA	ALA								c
MOTA	839	C	ALA			-25.128		110.372		35.25	
ATOM	840	0	ALA			-23.920		110.371		35.80	0
MOTA	841	CB	ALA	Α	135	-26.265		111.507		30.46	С
ATOM	842	N	ASP	Α	136	-26.017	58.781	110.524	1.00	29.23	N
ATOM	843	CA	ASP	Α	136	-25.558	60.154	110.717	1.00	28.02	С
ATOM	844	С	ASP	Α	136	-26.319	60.894	111.805	1.00	25.33	Ċ
MOTA	845	0	ASP			-27.544	60.892	111.848	1.00	28.97	0
ATOM	846	ČВ	ASP			-25.629		109.416		30.58	С
ATOM	847	ČĞ	ASP			-24.689		109.435	1.00	31.24	Č
ATOM	848		ASP			-24.857		110.301	1.00	3.31	ŏ
								108.588		35.23	ŏ
ATOM	849		ASP			-23.771					
ATOM	850	N	VAL			-25.559		112.670		24.06	N
ATOM	851	CA	VAL			-26.111		113.782		29.17	C
ATOM	852	С	VAL	Α	137	-27.011		113.405		27.79	С
ATOM	853	0	VAL	Α	137	-27.982	63.730	114.108	1.00	18.72	0
MOTA	854	CB	VAL	Α	137	-24.993	62.863	114.683	1.00	29.13	¢
ATOM	855	CG1	VAL	Α	137	-24.305	64.015	113.946	1.00	37.05	C C
ATOM	856		VAL			-25.569		115.990	1.00	28.08	С
ATOM	857	N	GLY			-26.678		112.315		33.18	N
ATOM	858	CA	GLY			-27.453		111.911		46.02	Ċ
ATOM	859	c	GLY			-28.739		111.159		51.07	Č
	860	ò				-29.370		111.297		56.77	ŏ
ATOM	~		GLY	_						F3 FA	N
ATOM	861	N	ASN			-29.112		110.348		53.59	
ATOM	862	CA	ASN			-30.332		109.563		50.34	C
MOTA	863	Ç	ASN			-30.175		108.258		41.50	C
MOTA	864	0	ASN			-31.166		107.598		34.93	0
ATOM	865	CB	ASN	Α	139	-30.839		109.281		62.95	С
MOTA	866	CG	ASN	Α	139	-31.173	68.176	110.578		71.51	С
MOTA	867	QD1	ASN	Α	139	-31.352	67.553	111.627	1.00	71.83	0
ATOM	868		ASN			-31.259		110.510		81.75	N
MOTA	869	N	LYS			-28.945		107.907		37.35	N
ATOM	870	CA	LYS			-28.668		106.717		35.87	C
ATOM	871	C	LYS			-27.304		106.831		38.24	č
ATOM	872	ŏ	LYS			-26:441		107.586		44.31	ñ
								105.433		29.88	č
ATOM	873	CB	LYS			-28.640				40.49	0 C C C
MOTA	874	CG	LYS			-29.974		104.795			~
ATOM	875	CD	LYS			-29.785		103.584		62.52	č
MOTA	876	CE	LYS			-31.122		103.054		70.29	Ü
MOTA	877	NZ	LYS			-30.972		102.015		70.68	N
MOTA	878	N	THR			-27.115		106.085		37.15	N
MOTA	879	CA	THR			-25.838		106.076		35.50	Ċ
MOTA	880	С	THR			-25.039		105.118		36.92	c
ATOM	881	0	THR			-25.639		104.405		42.58	0
ATOM	882	СВ	THR			-25.975	60.033	105.472	1.00	32.93	С

MOTA	883	OG1	THR	A	141	-26.291	60 149	104.084	1.00	29.61	0
ATOM	884		THR			-27.092		106.139		39.81	č
ATOM	885	N	CYS			-23.714		105.077		38.49	N
	886	CA	CYS			-22.977		104.136		44.01	Č
					_					44.89	č
ATOM	887	C	CYS			-23.473		102.724			
ATOM	888	0	CYS			-23.156		101.806		50.35	0
ATOM	889	СВ	CYS			-21.459		104.205		51.38	c
ATOM	890	SG	CYS			-20.666		105.784		72.02	S
ATOM	891	N	ALA			-24.270		102.566		45.64	N
ATOM	892	CA	ALA			-24.804		101.263		52.01	C
ATOM	893	С	ALA	Α	143	-26.059	62.115	100.901	1.00	59.39	С
ATOM	894	0	ALA			-26.345	62.316	99.726		63.73	0
ATOM	895	ÇВ	ALA	Α	143	-25.106	59.850	101.220	1.00	54.75	С
ATOM	896	N	GLY	Α	144	-26.806	62.558	101.905		63.40	N
MOTA	897	CA	GLY	Α	144	-28.025	63.303	101.642	1.00	68.16	С
ATOM	898	С	GLY	Α	144	-29.212	62.498	102.121	1.00	67.45	С
ATOM	899	0	GLY	Α	144	-30.330	62.996	102.269	1.00	73.47	0
ATOM	900	N	PHE	A	145	-28.963	61.225	102.373	1.00	61.79	N
ATOM	901	CA	PHE	Α	145	-30.022	60.351	102.843	1.00	57.87	С
ATOM	902	C	PHE			-30.378		104.292	1.00	54.82	С
ATOM	903	Ō	PHE			-29.678		104.967	1.00	52.34	0
ATOM	904	CB	PHE			-29.584		102:698	1.00	56.96	С
ATOM	905	CG	PHE			-29.472	58.447			58.46	С
ATOM	906		PHE			-30.591		100.479		63.62	С
ATOM	907		PHE			-28.246	58.096	100.744		56.83	С
ATOM	908		PHE			-30.500	58.028	99.150		71.78	Č
ATOM	909		PHE			-28.141	57.727	99.423		62.21	č
ATOM	910	cz	PHE			-29.271	57.684	98.618		69.70	č
ATOM	911	N	PRO			-31.477		104.777		56.74	N
ATOM	912	CA	PRO			-31.988		106.139		60.73	č
	913	C	PRO			-30.920		107.166		59.16	č
ATOM	914	ŏ				-29.834		107.100		67.99	ŏ
ATOM			PRO				58.843			65.25	č
ATOM	915	CB	PRO			-32.670				70.30	c
MOTA	916	CG	PRO		_	-33.358		105.042			c
ATOM	917	CD	PRO			-32.298		104.015		60.08	
ATOM	918	N	GLY			-31.254		108.130		54.04	N
ATOM	919	CA	GLY			-30.312		109.168		49.65	c
ATOM	920	Ç	GLY		_	-30.484		110.331		46.61	C
ATOM	921	0	GLY			-30.271		110.187		50.36	0
ATOM	922	N	SER			-30.897		111.471		43.80	N
ATOM	923	CA	SER	Α	148	-31.109		112.677		48.24	С
ATOM	924	С	SER	Α	148	-31.480		113.800		54.21	c
ATOM	925	0	SER	A	148	-31.791		114.918		55.54	0
ATOM	926	CB	SER	Α	148	-29.846		113.062		42.87	С
ATOM	927	OG	SER	A	148	-29.742		112.350		45.45	0
ATOM	928	N	PHE	Α	149	-31.434	62.711	113.484	1.00	60.50	N
MOTA	929	CA	PHE	A	149	-31.753	63.755	114.438	1.00	61.79	С
MOTA	930	C	PHE	Α	149	-33.112	63.496	115.045	1.00	64.22	С
MOTA	931	0	PHE	Α	149	-34.107	63.413	114.329	1.00	64.91	0
MOTA	932	CB	PHE	Α	149	-31.753	65.112	113.741	1.00	65.43	С
ATOM	933	CG	PHE	Α	149	-31.915	66.262	114.675	1.00	67.92	С
ATOM	934	CD1	PHE	A	149	-31.151	66.330	115.829	1.00	65.58	С
ATOM	935	CD2	PHE	Α	149	-32.825	67.275	114.405	1.00	76.80	С
ATOM	936		PHE			-31.280		116.705	1.00	75.12	С
ATOM	937		PHE			-32.968		115.274	1.00	83.75	С
ATOM	938	CZ	PHE			-32.193		116.432	1.00	83.27	С
ATOM	939	N	GLY			-33.157		116.365	1.00	67.83	N
ATOM	940	CA	GLY			-34.424		117.020	1.00	74.79	С
ATOM	941	C	GLY			-35.020		116.581		76.82	С
ATOM	942	Õ	GLY			-36.199		116.244		87.25	Ó
ATOM	943	N	TYR			-34.190		116.562		71.76	N
ATOM	944	CA	TYR			-34.624		116.160		66.00	C
ATOM	945	c	TYR			-33.688		116.817		61.26	č
ATOM	946	ŏ	TYR			-33.960		116.851		56.60	ō
ATOM	947	СВ	TYR			-34.529		114.639		73.54	č
ATOM	948	CG	TYR			-35.575		113.820		76.28	č
						-36.916		113.809		82.28	č
ATOM	949		TYR					113.003		79.60	C
ATOM	950		TYR			-35.210				84.58	Č
ATOM	951		TYR			-37.857		113.007			C C
ATOM	952		TYR			-36.142		112.209 112.210		86.91 85.18	c
ATOM	953	CZ	TYR			-37.458					ò
MOTA	954	ОН	TYR			-38.361		111.399		84.45	
ATOM	955	N.	TYR			-32.577		117.332		57.27	N
ATOM	956	CA	TYR			-31.556		117.980		56.78	C
ATOM	957	C	TYR			-32.129		118.610		56.79	c
MOTA	958	0	TYR			-31.900		118.122		59.65	0
ATOM	959	CB	TYR			-30.833		119.038		57.11	C
ATOM	960	CC	TYR			-30.262		118.493		51.41	c
ATOM	961		TYR			-29.449		117.356		45.75	C
ATOM	962		TYR			-30.543		119.106		52.15	c
ATOM	963	CEL	TYR	Α	127	-28.934	01.429	116.844	1.00	40.47	С

MOTA	964	CE2	TYR A	152	-30.030	62.680 118.602	1.00 50.45	С
ATOM	965	CZ	TYR A		-29.228	62.661 117.472	1.00 41.43	č
ATOM	966	ОН	TYR A		-28.723	63.839 116.972	1.00 33.76	0
MOTA	967	N	ASP A	153	-32.879	57.068 119.692	1.00 53.39	N
ATOM	968	CA	ASP A	153	-33.479	55.931 120.369	1.00 59.36	С
ATOM	969	C	ASP A		-34.119	54.968 119.363	1.00 61.05	Č
			ASP A		-33.724		1.00 69.33	
MOTA	970	0				53.806 119.279		0
MOTA	971	ÇВ	ASP A		-34.519	56.409 121.383	1.00 61.10	С
ATOM	972	CG	ASP A	153	-33.905	57.192 122.522	1.00 66.51	С
MOTA	973	001	ASP A	153	-32.967	56.666 123.159	1.00 74.47	0
MOTA	974		ASP A		-34.368	58.324 122.785	1.00 67.84	ŏ
ATOM	975	N	ILE A		-35.089	55.446 118.590	1.00 58.54	N
MOTA	976	CA	ILE A	154	-35.744	54.590 117.603	1.00 56.48	С
ATOM	977	C	ILE A	154	-34.714	53.813 116.799	1.00 53.07	С
ATOM	978	Ó	ILE A	154	-34.649	52.584 116.868	1.00 55.38	0
	979		ILE A		-36.582	55.402 116.607	1.00 60.62	
MOTA		CB						c
ATOM	980		ILE A		-37.745	56.075 117.331	1.00 60.11	С
MOTA	981	CG2	ILE A	154	-37.103	54.491 115.510	1.00 58.52	С
MOTA	982	CD1	ILE A	154	-38.627	56.910 116.424	1.00 68.47	С
MOTA	983	N	ASP A		-33.915	54.548 116.034	1.00 49.17	N
ATOM	984		ASP A		-32.881	53.949 115.207	1.00 48.75	ë
		CA						
MOTA	985	С	ASP A		-32.097	52.895 115.975	1.00 46.33	С
MOTA	986	0	ASP A	155	-31.971	51.757 115.531	1.00 47.70	0
MOTA	987	CB	ASP A	155	-31.941	55.038 114.687	1.00 56.70	С
ATOM	988	CG	ASP A		-32.637	55.999 113.730	1.00 65.61	č
ATOM	989		ASP A		-31.990	56.962 113.255	1.00 66.95	ŏ
MOTA	990		ASP A		-33.837	55.786 113.447	1.00 76.23	0
ATOM	991	N	ALA A		-31.575	53.271 117.133	1.00 43.12	N
MOTA	992	CA	ALA A	156	-30.819	52.323 117.934	1.00 51.16	С
ATOM	993	C	ALA A		-31.570	50.994 118.019	1.00 57.39	č
ATOM	994	ŏ	ALA A		-31.122	49.981 117.488	1.00 54.91	ŏ
MOTA	995	СВ	ALA A		-30.580	52.890 119.330	1.00 54.88	C
MOTA	996	N	GLN A	157	-32.723	51.004 118.676	1.00 62.27	N
ATOM	997	CA	GLN A	157	-33.515	49.791 118.815	1.00 62.11	C
MOTA	998	С	GLN A	157	-33.610	49.115 117.454	1.00 58.35	C
MOTA	999	ŏ	GLN A		-33.424	47.901 117.336	1.00 55.24	ŏ
			GLN A					č
MOTA	1000	СВ			-34.918	50.122 119.333	1.00 66.46	C
MOTA	1001	CG	GLN A		-35.418	49.129 120.344	1.00 68.51	С
MOTA	1002	CD	GLN A	157	-34.542	49.106 121.575	1.00 73.20	С
ATOM	1003	OE1	GLN A	157	-34.440	50.103 122.291	1.00 72.76	0
MOTA	1004		GLN A		-33.893	47.971 121.825	1.00 73.79	Ñ
ATOM	1005							
		N	THR A		-33.895	49.907 116.425	1.00 55.78	N
MOTA	1006	CA	THR A		-34.001	49.375 115.076	1.00 57.61	С
MOTA	1007	С	THR A	158	-32.802	48.459 114.822	1.00 59.20	С
MOTA	1008	0	THR A	158	-32.946	47.236 114.805	1.00 59.18	0
ATOM	1009	СВ	THR A		-34.012	50.508 114.017	1.00 59.39	Ċ
ATOM	1010		THR A		-35.156	51.348 114.216	1.00 58.60	ō
	_							
MOTA	1011		THR A		-34.061	49.927 112.619	1.00 59.01	C
MOTA	1012	N	PHE A		-31.621	49.056 114.651	1.00 58.19	N
ATOM	1013	CA	PHE A	159	-30.387	48.299 114.398	1.00 52.96	C
ATOM	1014	С	PHE A	159	-30.257	47.139 115.368	1.00 51.83	C
ATOM	1015	ŏ	PHE A		-30.010	45.998 114.966	1.00 52.13	ō
	1016	СВ		159	-29.148	49.174 114.588	1.00 39.41	č
ATOM								
ATOM	1017	CG	PHE A		-29.164	50.447 113.803	1.00 33.46	C
MOTA	1018	CD1	PHE A	159	-29.153	50.425 112.414	1.00 40.11	С
ATOM	1019	CD2	PHE A	159	-29.158	51.677 114.456	1.00 27.14	С
MOTA	1020			159	-29.131	51.608 111.687	1.00 39.56	С
ATOM	1021		PHE A		-29.136	52.861 113.744	1.00 26.61	č
ATOM	1022	CZ	PHE A		-29.122	52.829 112.353	1.00 29.93	č
					20 200			
ATOM	1023	N	ALA A		-30.396	47.457 116.651	1.00 46.49	Ŋ
MOTA	1024	CA	ALA A	160	-30.293	46.467 117.705	1.00 51.93	С
MOTA	1025	С	ALA A	160	-31.140	45.256 117.363	1.00 53.81	С
ATOM	1026	Ö	ALA A		-30.736	44.121 117.612	1.00 57.70	Ó
ATOM	1027	СB	ALA A		-30.743	47.071 119.021	1.00 56.28	č
ATOM					-32.312		1.00 52.03	N
	1028	N	ASP A			45.502 116.779		
ATOM	1029	CA	ASP A		-33.213	44.420 116.399	1.00 48.71	Ç
ATOM	1030	С	ASP A		-32.813	43.799 115.066	1.00 46.99	C
ATOM	1031	0	ASP A		-32.960	42.603 114.869	1.00 47.02	0
ATOM	1032	ČВ	ASP A		-34.654	44.918 116.321	1.00 54.43	č
ATOM	1033	CG	ASP A		-35.135	45.513 117.628	1.00 64.53	č
ATOM	1034		ASP A		-34.756	44.987 118.695	1.00 66.37	0
MOTA	1035		ASP A		-35.905	46.498 117.589	1.00 73.72	0
ATOM	1036	N	TRP A	162	-32.305	44.615 114.151	1.00 42.60	N
ATOM	1037	CA	TRP A		-31.864	44.130 112.848	1.00 47.02	С
ATOM	1038	C	TRP A		-30.728	43.135 112.995	1.00 52.84	Č
ATOM	1039	ŏ	TRP A		-30.453	42.347 112.079	1.00 58.41	õ
								ŏ
ATOM	1040	CB	TRP A		-31.391	45.296 111.996	1.00 45.23	Ċ
MOTA	1041	CG	TRP A		-32.495	46.058 111.387	1.00 52.02	С
ATOM	1042	CD1	TRP A	162	-33.829	45.819 111.517	1.00 57.35	С
ATOM	1043		TRP A		-32.365	47.164 110.506	1.00 55.31	С
ATOM	1044		TRP A		-34.542	46.710 110.761	1.00 58.06	N
			A	-02	*34.346		1.00 30.00	.,

MOTA	1045	CE2	TRP /	A 162	-33.666	47.549 110.127	1.00 54.33	С
ATOM	1046	CE3	TRP /	A 162	-31.273	47.868 109.992	1.00 57.11	С
MOTA	1047		TRP /		-33.907	48.610 109.258	1.00 54.11	Ċ
ATOM	1048	CZ3			-31.509	48.923 109.129	1.00 54.12	č
MOTA	1049							č
			TRP /		-32.819	49.284 108.769	1.00 56.13	
MOTA	1050	N	GLY A		-30.071	43.190 114.153	1.00 50.47	N
MOTA	1051	CA	GLY A		-28.960	42.301 114.435	1.00 48.75	С
MOTA	1052	С	GLY A	A 163	-27.611	42.895 114.074	1.00 48.13	С
MOTA	1053	0	GLY A	A 163	-26.724	42.194 113.586	1.00 49.04	0
ATOM	1054	N	VAL A	A 164	-27.452	44.188 114.321	1.00 46.12	N
ATOM	1055	CA	VAL A	A 164	-26.203	44.862 114.015	1.00 39.85	С
MOTA	1056	Ċ	VAL A		-25.140	44.616 115.068	1.00 41.90	Ċ
ATOM	1057	ŏ	VAL A		-25.442	44.341 116.231	1.00 48.62	ŏ
ATOM	1058	СВ			-26.404		1.00 43.02	č
			VAL A			46.364 113.896		
ATOM	1059		VAL A		-25.117	47.018 113.440	1.00 37.25	c
MOTA	1060		VAL A		-27.540	46.650 112.934	1.00 23.64	С
MOTA	1061	N	ASP A		-23.888	44.721 114.650	1.00 40.76	N
ATOM	1062	ÇA	ASP A		-22.779	44.513 115.559	1.00 46.54	С
ATOM	1063	С	ASP A	A 165	-21.925	45.765 115.675	1.00 47.34	С
ATOM	1064	0	ASP A	165	-21.208	45.941 116.660	1.00 50.94	0
ATOM	1065	CB	ASP A		-21.900	43.362 115.074	1.00 43.91	C
ATOM	1066	CG	ASP A		-22.657	42.066 114.949	1.00 45.91	č
ATOM	1067		ASP A		-23.265	41.617 115.956	1.00 49.23	ō
MOTA	1068		ASP A		-22.632			ŏ
						41.503 113.833	1.00 41.28	
ATOM	1069	N	LEU A		-21.995	46.638 114.678	1.00 41.70	N
ATOM	1070	CA	LEU A		-21.184	47.849 114.708	1.00 34.79	Č
MOTA	1071	С	LEU A		-21.817	49.022 113.966	1.00 29.04	С
MOTA	1072	0	LEU A	A 166	-22.388	48.849 112.883	1.00 18.18	0
ATOM	1073	CB	LEU A	A 166	-19.803	47.541 114.120	1.00 34.97	С
ATOM	1074	CG	LEU A		-18.748	48.640 113.932	1.00 28.60	С
ATOM	1075		LEU A		-17.429	47.992 113.523	1.00 32.34	č
ATOM	1076		LEU A		-19.198	49.642 112.875	1.00 34.11	č
			LEU A		-21.685			N
ATOM	1077	N				50.217 114.545	1.00 29.90	
MOTA	1078	CA	LEU A		-22.242	51.431 113.950	1.00 29.38	C
MOTA	1079	C	LEU A		-21.230	52.536 113.652	1.00 30.39	Ç
ATOM	1080	0	LEU A	167	-20.507	52.980 114.543	1.00 34.52	0
ATOM	1081	CB	LEU A	167	-23.313	52.022 114.865	1.00 29.92	. c
ATOM	1082	CG	LEU A	167	-23.849	53.353 114.333	1.00 26.86	Ċ
ATOM	1083		LEU A		-24.617	53.072 113.056	1.00 23.49	Ċ
ATOM	1084		LEU A		-24.741	54.042 115.356	1.00 24.77	č
ATOM	1085	N	LYS A		-21.185	52.985 112.404	1.00 31.63	N
ATOM	1086	CA	LYS A		-20.294	54.083 112.055	1.00 33.02	C
ATOM	1087	C	LYS A		-21.154	55.328 112.122	1.00 34.61	C
ATOM	1088	0	LYS A		-21.947	55.583'111.216	1.00 37.40	0
ATOM	1089	CB	LYS A	168	-19.733	53.936 110.631	1.00 36.20	С
ATOM	1090	CG	LYS A	168	-18.885	55.153 110.176	1.00 36.63	С
ATOM	1091	CD	LYS A	168	-18.140	54.939 108.840	1.00 32.72	С
ATOM	1092	CE	LYS A		-17.230	56.127 108.494	1.00 17.31	Ċ
ATOM	1093	NZ	LYS A		-16.338	55.854 107.338	1.00 20.64	N
ATOM	1094	N	PHE A		-21.019	56.097 113.193	1.00 34.82	N
ATOM	1095	CA	PHE A		-21.830	57.292 113.320	1.00 43.12	C
MOTA	1096	C	PHE A		-21.143	58.538 112.769	1.00 44.70	C
ATOM	1097	0	PHE A		-20.330	59.169 113.444	1.00 46.72	0
ATOM	1098	CB	PHE A		-22.227	57.498 114.780	1.00 53.78	С
ATOM	1099	CG	PHE A	169	-23.554	58.160 114.946	1.00 66.20	С
ATOM	1100	CD1	PHE A	169	-24.658	57.695 114.241	1.00 71.04	С
ATOM	1101	CD2	PHE A	169	-23.704	59.248 115.793	1.00 69.28	С
MOTA	1102		PHE A		-25.893	58.301 114.373	1.00 73.13	С
ATOM	1103		PHE A		-24.938	59.864 115.936	1.00 74.53	č
ATOM	1104	CZ	PHE A		-26.037	59.389 115.223	1.00 75.63	č
ATOM	1105	N	ASP A		-21.493	58.886 111.534	1.00 43.70	Ň
ATOM	1106	CA	ASP A		-20.942	60.050 110.834	1.00 43.70	č
						61.342 111.313	1.00 47.05	Ċ
ATOM	1107	C	ASP A		-21.627			
ATOM	1108	0	ASP A		-22.725	61.298 111.863	1.00 58.65	0
ATOM	1109	CB	ASP A		-21.158	59.870 109.327	1.00 42.08	c
MOTA	1110	CG	ASP A		-20.438	60.894 108.510	1.00 47.03	C
MOTA	1111		ASP A		-19.948	61.874 109.086	1.00 39.35	0
ATOM	1112	OD2	ASP A	170	-20.365	60.724 107.282	1.00 60.53	0
ATOM	1113	N	GLY A		-20.991	62.490 111.096	1.00 40.64	N
ATOM	1114	CA	GLY A		-21.585	63.740 111.533	1.00 40.10	C
ATOM	1115	C	GLY A		-21.687	64.883 110.535	1.00 41.45	Ċ
ATOM	1116	ō	GLY A		-21.069	65.936 110.721	1.00 38.61	ŏ
ATOM	1117	N	CYS A		-22.461	64.686 109.474	1.00 45.62	N
MOTA	1118	CA	CYS A		-22.662	65.740 108.485	1.00 57.26	č
ATOM	1119					66.376 108.765		Ċ
		C	CYS A		-24.014		1.00 64.15	
ATOM	1120	0	CYS A		-24.971	65.671 109.085	1.00 68.98	0
ATOM	1121	CB	CYS A		-22.685	65.170 107.064	1.00 63.70	c
MOTA	1122	SG	CYS A		-21.108	65.199 106.143	1.00 78.74	S
MOTA	1123	N	TYR A		-24.092	67.698 108.666	1.00 65.75	N
ATOM	1124	CA	TYR A		-25.359	68.398 108.865	1.00 65.04	Ç
MOTA	1125	C	TYR A	173	-25.910	68.529 110.289	1.00 70.36	С

1001	1126	_	mvo z	. 177	-26.614	67 642 110 760	1 00 50 51	^
MOTA	1126	O CB	TYR A		-26.444	67.643 110.768 67.742 108.004	1.00 68.61 1.00 50.88	0
MOTA MOTA	1127 1128	CG	TYR A		-26.119	67.665 106.530	1.00 40.15	č
ATOM	1129		TYR		-25.907	68.822 105.783	1.00 44.16	č
MOTA	1130		TYR A		-26.058	66.440 105.874	1.00 37.10	č
ATOM	1131	CEI			-25.645	68.764 104.416	1.00 35.52	č
ATOM	1132	CE2			-25.800	66.368 104.507	1.00 32.18	č
ATOM	1133	CZ	TYR A		-25.593	67.535 103.778	1.00 30.22	č
ATOM	1134	ОН	TYR A		-25.336	67.471 102.418	1.00 19.17	ō
MOTA	1135	N	CYS A		-25.617	69.647 110.950	1.00 78.94	N
MOTA	1136	CA	CYS A	174	-26.119	69.910 112.300	1.00 85.57	С
MOTA	1137	С	CYS A	174	-25.742	71.318 112.742	1.00 94.32	С
MOTA	1138	0	CYS A		-24.630	71.778 112.500	1.00103.79	0
MOTA	1139	CB	CYS A		-25.584	68.879 113.296	1.00 78.87	С
MOTA	1140	SG	CYS A		-23.805	68.720 113.299	1.00 61.30	S
ATOM	1141	N	ASP A		-26.684	71.995 113.390	1.00 97.67	N
ATOM	1142	CA	ASP A		-26.490	73.365 113.850	1.00103.74	C
MOTA	1143	c	ASP A		-25.154	73.614 114.555	1.00103.67	c
ATOM ATOM	1144 1145	O CB	ASP A		-24.156 -27.653	73.933 113.914 73.783 114.769	1.00101.24 1.00117.72	0
MOTA	1145	CG	ASP A		-28.943	74.107 114.002	1.00117.72	c
ATOM	1147		ASP A		-28.928	75.006 113.134	1.00123.00	ŏ
ATOM	1148	OD2			-29.982	73.472 114.280	1.00135.80	ŏ
ATOM	1149	N	SER A		-25.135	73.481 115.875	1.00105.67	N
MOTA	1150	CA	SER A		-23.914	73.714 116.637	1.00109.70	С
ATOM	1151	С	SER A	176	-23.466	72.452 117.357	1.00108.65	С
MOTA	1152	0	SER A	176	-24.222	71.481 117.444	1.00105.77	0
ATOM	1153	CB	SER A		-24.140	74.827 117.660	1.00116.59	C
ATOM	1154	OG	SER A		-25.073	74.427 118.649	1.00127.13	0
MOTA	1155	N	LEU A		-22.236	72.466 117.870	1.00109.10	N
ATOM	1156	CA	LEU A		-21.706	71.315 118.594	1.00113.27	c
MOTA MOTA	1157	Ç	LEU A		-22.719	70.852 119.626	1.00118.00	C
ATOM	1158 1159	O CB	LEU A		-22.741 -20.395	69.685 120.002 71.664 119.289	1.00119.05 1.00108.56	0 C
ATOM	1160	CG	LEU A		-19.213	72.035 118.388	1.00108.36	c
ATOM	1161		LEU A		-18.937	73.593 118.503	1.00110.81	č
MOTA	1162		LEU A		-17.984	71.146 118.755	1.00113.74	č
MOTA	1163	N	GLU A		-23.551	71.776 120.096	1.00121.90	N
ATOM	1164	CA	GLU A		-24.593	71.419 121.053	1.00126.02	C
MOTA	1165	C	GLU A		-25.284	70.201 120.449	1.00120.33	С
ATOM	1166	O	GLU A		-25.169	69.090 120.966	1.00121.32	0
ATOM	1167	CB	GLU A		-25.601	72.571 121.215	1.00138.76	C
ATOM	1168	CG	GLU A		-25.076	73.783 121.982	1.00152.42	C
MOTA	1169	CD	GLU A		-24.864	73.486 123.456	1.00157.35	c
ATOM ATOM	1170 1171	OE2	GLU A		-25.854 -23.713	73.135 124.136 73.603 123.935	1.00157.22	0
ATOM	1172	N N	ASN A		-25.968	70.409 119.328	1.00160.51	N
ATOM	1173	CA	ASN A		-26.658	69.318 118.657	1.00100.76	C
ATOM	1174	C	ASN A		-25.709	68.158 118.385	1.00 93.18	č
ATOM	1175	O	ASN A		-26.093	66.997 118.519	1.00 92.47	Ö
ATOM	1176	СВ	ASN A	179	-27.270	69.811 117.352	1.00104.39	С
MOTA	1177	CG	ASN A		-28.245	70.946 117.569	1.00102.16	C
ATOM	1178		ASN A		-28.886	71.040 118.620	1.00 90.92	0
ATOM	1179		ASN A		-28.381	71.806 116.567	1.00106.80	N
ATOM	1180	N	LEU A		-24.469	68.476 118.020	1.00 81.89	N
ATOM ATOM	1181 1182	CA C	LEU A		-23.463	67.453 117.730	1.00 72.86 1.00 69.25	C C
ATOM	1183	ŏ	LEU A		-23.087 -23.545	66.647 118.976 65.518 119.161	1.00 69.25	o
ATOM	1184	СВ	LEU A		-22.204	68.105 117.137	1.00 70.11	č
ATOM	1185		LEU A		-21.033	67.185 116.768	1.00 67.68	č
ATOM	1186		LEU A		-21.462	66.225 115.671	1.00 76.29	Ċ
ATOM	1187		LEU A		-19.854	68.017 116.309	1.00 65.37	С
ATOM	1188	N	ALA A		-22.245	67.233 119.820	1.00 64.43	N
ATOM	1189	CA	ALA A		-21.802	66.577 121.044	1.00 66.82	С
ATOM	1190	Ç	ALA A		-22.922	65.761 121.672	1.00 65.66	C
ATOM	1191	0	ALA A		-22.753	64.566 121.912	1.00 68.03	0
MOTA MOTA	1192	CB	ALA A		-21.291	67.612 122.034	1.00 69.43	C
MOTA	1193 1194	N CA	ASP A		-24.062 -25.206	66.402 121.926 65.715 122.524	1.00 62.37 1.00 65.99	N C
ATOM	1195	C	ASP A		-25.622	64.493 121.719	1.00 65.00	c
MOTA	1196	ŏ	ASP A		-25.816	63.412 122.274	1.00 59.17	ō
ATOM	1197	ČВ	ASP A		-26.406	66.658 122.656	1.00 73.88	č
MOTA	1198	CG	ASP A		-26.334	67.525 123.893	1.00 80.02	c c
ATOM	1199		ASP A		-26.076	66.976 124.988	1.00 92.51	0
MOTA	1200		ASP A		-26.547	68.751 123.779	1.00 75.90	0
ATOM	1201	N	GLY A		-25.767	64.673 120.409	1.00 66.05	N
MOTA	1202	CA	GLY A		-26.156	63.573 119.543	1.00 60.45	C
MOTA MOTA	1203 1204	C	GLY A		-25.245 -25.724	62.364 119.683 61.242 119.881	1.00 54.15	C O
ATOM	1205	N	GLY A		-25.724 -23.933	62.580 119.576	1.00 58.09 1.00 45.07	N
ATOM	1206	CA	TYR A		-22.985	61.485 119.711	1.00 37.39	C
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ATOM	1207	С	TYR A	184	-23.210	60.856 121.067	1.00 34.36	С
ATOM	1208	0	TYR A		-23.520	59.670 121.156	1.00 32.57	0
MOTA	1209	СВ	TYR A	184	-21.548	61.986 119.596	1.00 31.49	С
MOTA	1210	CG	TYR A	184	-21.003	61.897 118.190	1.00 28.45	С
MOTA							1.00 34.59	č
	1211		TYR A		-20.770	60.661 117.584		
MOTA	1212	CD2	TYR A	184	-20.758	63.045 117.444	1.00 23.65	С
MOTA	1213	CE1	TYR A	184	-20.306	60.574 116.266	1.00 34.51	С
ATOM	1214	CE2			-20.296	62.966 116.124	1.00 26.31	Ċ
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MOTA	1215	CZ	TYR A	184	-20.074	61.729 115.548	1.00 29.11	С
MOTA	1216	OН	TYR A	184	-19.620	61.660 114.259	1.00 26.35	0
MOTA	1217	N	LYS A		-23.074	61.662 122.120	1.00 39.05	N
MOTA	1218	CA	LYS A	185	-23.277	61.193 123.495	1.00 48.75	С
MOTA	1219	С	LYS A	185	-24.603	60.447 123.636	1.00 50.42	С
	1220							ŏ
MOTA		0	LYS A		-24.643	59.297 124.074	1.00 50.83	Q
ATOM	1221	CB	LYS A	185	-23.276	62.371 124.488	1.00 58.43	С
MOTA	1222	CG	LYS A	185	-21.929	63.073 124.702	1.00 73.82	,c
	1223	CD	LYS A		-21.890		1.00 82.36	`c
MOTA						63.906 126.010		۲
MOTA	1224	CE	LYS A	185	-22.888	65.063 126.016	1.00 93.18	С
MOTA	1225	NZ	LYS A	185	-22.795	65.897 127.254	1.00 96.90	N
MOTA	1226	N	HIS A		-25.686	61.121 123.263	1.00 52.77	N
MOTA	1227	CA	HIS A	186	-27.025	60.558 123.347	1.00 49.62	С
MOTA	1228	С	HIS A	186	-27.078	59.169 122.737	1.00 41.58	С
MOTA	1229	0	HIS A		-27.262	58.180 123.441	1.00 37.23	0
								Š
MOTA	1230	СВ	HIS A		-28.017	61.472 122.634	1.00 54.01	Ċ
MOTA	1231	CG	HIS A	186	-29.447	61.124 122.894	1.00 57.63	С
MOTA	1232		HIS A		-30.497	61.799 122.305	1.00 59.91	N
MOTA	1233	CDZ	HIS A	1 180	-30.007	60.178 123.684	1.00 60.61	С
ATOM	1234	CE1	HIS A	186	-31.638	61.283 122.720	1.00 65.11	С
ATOM	1235		HIS A		-31.369	60.296 123.558	1.00 64.41	- N
MOTA	1236	N	MET A	181	-26.919	59.104 121.421	1.00 36.42	N
MOTA	1237	CA	MET A	187	-26.930	57.837 120.702	1.00 37.19	C
MOTA	1238	С	MET A		-26.125	56.778 121.468	1.00 39.71	С
								č
MOTA	1239	0	MET A		-26.606	55.662 121.703	1.00 43.37	0
MOTA	1240	ÇВ	MET A	187	-26.347	58.050 119.299	1.00 27.48	С
MOTA	1241	CG	MET A	187	-26.191	56.785 118.456	1.00 34.76	С
	1242	SD	MET A		-27.734	55.889 118.163	1.00 36.92	s
MOTA								3
MOTA	1243	CE	MET A	187	-28.259	56.613 116.581	1.00 45.04	С
MOTA	1244	N	SER A	188	-24.909	57.149 121.866	1.00 41.71	N
MOTA	1245	CA	SER A		-24.017	56.263 122.600	1.00 37.27	Ċ
								_
MOTA	1246	С	SER A	188	-24.764	55.527 123.699	1.00 31.50	С
MOTA	1247	0	SER A	188	-24.648	54.312 123.837	1.00 29.93	0
MOTA	1248	СB	SER A		-22.873	57.066 123.205	1.00 39:51	_
								. C
MOTA	1249	OG	SER A	188	-21.937	56.205 123.826	1.00 38.33	0
MOTA	1250	N	LEU A	189	-25.537	56.274 124.474	1.00 30.93	N
ATOM	1251	CA	LEU A		-26.326	55.706 125.562	1.00 38.86	Ċ
								_
MOTA	1252	С	LEU A	188	-27.498	54.864 125.034	1.00 37.08	Ċ
ATOM	1253	0	LEU A	189	-27.819	53.795 125.578	1.00 34.46	0
MOTA	1254	CB	LEU A		-26.871	56.840 126.434	1.00 51.38	Ċ
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ATOM	1255	CG	LEU A		-25.869	57.868 126.964	1.00 55.89	Ċ
ATOM	1256	CD1	LEU A	189	-26.630	59.095 127.449	1.00 62.91	С
MOTA	1257	CD2	LEU A	189	-25.018	57.255 128.078	1.00 48.77	Ċ
						55.367 123.979	1.00 34.71	, ,
MOTA	1258	N	ALA A		-28.136			N
MOTA	1259	ÇA	ALA A	190	-29.266	54.689 123.364	1.00 36.52	C
ATOM	1260	С	ALA A	190	-28.897	53.247 123.064	1.00 41.07	c
						52.325 123.367		ō
MOTA	1261	0	ALA A		-29.653		1.00 45.62	ō
ATOM	1262	CB	ALA A		-29.662	55.397 122.092	1.00 32.84	С
MOTA	1263	N	LEU A	191	-27.724	53.060 122.473	1.00 41.81	N
ATOM	1264	CA	LEU A		-27.240	51.733 122.133	1.00 43.27	С
								č
ATOM	1265	C	LEU A		-27.056	50.828 123.359	1.00 45.92	
MOTA	1266	0	LEU A	191	-27.756	49.827 123.502	1.00 46.02	0
ATOM	1267	CB	LEU A		-25.931	51.865 121.354	1.00 38.79	С
MOTA	1268	ĊĢ	LEU A		-26.052	52.702 120.071	1.00 38.54	Ċ
ATOM	1269		LEU A		-24.669	52.980 119.495	1.00 40.68	C
MOTA	1270	CD2	LEU A	191	-26.916	51.970 119.045	1.00 41.30	С
ATOM	1271	N	ASN A		-26.125	51.160 124.245	1.00 50.32	N
							1.00 51.94	
MOTA	1272	CA	ASN A		-25.933	50.314 125.412		C
ATOM	1273	С	ASN A		-27.311	49.916 125.898	1.00 51.27	С
ATOM	1274	0	ASN A		-27.566	48.751 126.184	1.00 53.27	0
ATOM	1275	СB	ASN A		-25.190	51.056 126.523	1.00 51.78	ř
					-23.170			c c
ATOM	1276	CC	ASN A		-24.865	50.153 127.715	1.00 51.63	
MOTA	1277	0D1	ASN A	192	-25.766	49.594 128.339	1.00 64.23	0
ATOM	1278		ASN A		-23.574	50.016 128.021	1.00 45.03	N
ATOM	1279	N	ARG A		-28.209	50.893 125.945	1.00 55.36	N
ATOM	1280	CA	ARG A	193	-29.565	50.653 126.400	1.00 62.45	С
ATOM	1281	C	ARG A		-30.216	49.485 125.669	1.00 55.61	С
MOTA	1282	ò	ARG A			48.608 126.295	1.00 59.33	ŏ
					-30.807			Ž
ATOM	1283	CB	ARG A		-30.403	51.910 126.207	1.00 73.86	С
ATOM	1284	CG	ARG A	193	-31.760	51.866 126.876	1.00 95.58	С
MOTA	1285	CD	ARG A		-32.437	53.194 126.676	1.00110.48	Ċ
ATOM	1286	NE				54.266 126.821	1.00120.92	N
			ARG A		-31.459			
MOTA	1287	CZ	ARG A	193	-31.697	55.547 126.561	1.00125.94	С

ATOM	1288	NH1	ARG A	193	-32.892	55.935	126.141	1.00130.65	N
MOTA	1289	NH2	ARG A	193	-30.732	56.444	126.713	1.00126.19	N
MOTA	1290	N	THR A		-30.100		124.345	1.00 43.02	N
MOTA	1291	CA	THR A		-30.702		123.546	1.00 36.14	C
MOTA	1292	С	THR A		-30.298		124.034	1.00 32.48	С
MOTA	1293	0	THR A	194	-31.037	46.044	123.835	1.00 29.14	0
MOTA	1294	CB	THR A	194	-30.297	48.485	122.069	1.00 35.70	С
MOTA	1295		THR A		-28.926		121.938	1.00 35.73	ŏ
MOTA	1296	CG2	THR A		-30.475		121.535	1.00 39.30	С
MOTA	1297	N	GLY A	195	-29.121	46.918	124.652	1.00 30.85	N
MOTA	1298	CA	GLY A	195	-28.651	45.636	125.154	1.00 34.30	С
MOTA	1299	Ċ	GLY A		-27.734		124.193	1.00 36.49	č
MOTA	1300	0	GLY A		-26.890		124.600	1.00 36.19	0
ATOM	1301	N	ARG A		-27.905		122.906	1.00 40.82	N
MOTA	1302	CA	ARG A	196	-27.087	44.538	121.876	1.00 46.67	С
MOTA	1303	С	ARG A	196	-25.670	45.098	122.013	1.00 48.09	С
MOTA	1304	ŏ	ARG A		-25.489		122.195	1.00 54.78	Õ
							120.490		č
MOTA	1305	CB	ARG A		-27.673			1.00 54.84	Č
ATOM	1306	CG	ARG A	1 196	-26.968		119.286	1.00 63.61	С
ATOM	1307	CD	ARG A	196	-27.506	42.876	118.919	1.00 72.08	С
ATOM	1308	NE	ARG A	196	-26.709	42.287	117.848	1.00 77.41	N
ATOM	1309	CZ	ARG A		-26.723		117.514	1.00 85.11	c
MOTA	1310		ARG A		-27.499		118.159	1.00 84.72	N
MOTA	1311	NH2	ARG A	1 196	-25.936	40.569	116.544	1.00 93.60	N
ATOM	1312	N	SER A	197	-24.667	44.228	121.955	1.00 45.00	N
ATOM	1313	CA	SER A	197	-23.276	44.667	122.050	1.00 44.47	С
ATOM	1314	C	SER A		-22.887		120.692	1.00 50.27	· c
MOTA	1315	0	SER A		-22.621		119.740	1.00 55.75	0
ATOM	1316	CB	SER A		-22.367		122.371	1.00 41.44	С
MOTA	1317	OG	SER A	197	-22.822	42.793	123.524	1.00 44.41	0
ATOM	1318	N	ILE A	198	-22.846	46.591	120.603	1.00 49.87	N
MOTA	1319	CA	ILE A		-22.519		119.343	1.00 46.63	C
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ATOM	1320	C	ILE A		-21.248		119.359	1.00 41.34	Č
ATOM	1321	0	ILE A	198	-21.197		120.042	1.00 44.43	0
ATOM	1322	CB	ILE A	198	-23.663	48.236	118.911	1.00 47.20	С
MOTA	1323	CG1	ILE A	198	-25.025	47.552	119.043	1.00 45.40	Ċ
ATOM	1324		ILE A		-23.441		117.481	1.00 47.83	C
MOTA					-26.198			1.00 31.46	č
	1325		ILE A				118.835		
MOTA	1326	N	VAL A		-20.227		118.602	1.00 35.54	N
MOTA	1327	CA	VAL A	199	-19.019	48.561	118.560	1.00 33.21	С
MOTA	1328	С	VAL A	199	-19.430	49.899	117.960	1.00 25.97	С
ATOM	1329	ō	VAL A		-19.899		116.823	1.00 21.07	ŏ
MOTA	1330	CB	VAL A		-17.919		117.673	1.00 37.47	c
ATOM	1331	CG1	VAL A	199	-16.794	48.968	117.472	1.00 34.52	С
MOTA	1332	CG2	VAL A	199	-17.369	46.686	118.322	1.00 50.88	C
MOTA	1333	N	TYR A	200	-19.242	50.956	118.734	1.00 22.51	N
ATOM	1334	CA	TYR A		-19.622		118.317	1.00 21.72	Ċ
								1.00 23.34	č
MOTA	1335	C	TYR A		-18.416		117.848		
MOTA	1336	0	TYR A		-17.535		118.652	1.00 19.31	O.
MOTA	1337	CB	TYR A	1 200	-20.287	52.978	119.499	1.00 25.92	С
ATOM	1338	CG	TYR A	200	-20.828	54.353	119.240	1.00 27.65	С
MOTA	1339		TYR A		-21.529	54.641	118.079	1.00 27.17	С
ATOM	1340	CD2			-20.698		120.204	1.00 31.21	č
									c c c
ATOM	1341		TYR A		-22.095		117.885	1.00 42.25	Č
MOTA	1342	CE2	TYR A		-21.259		120.025	1.00 29.28	С
MOTA	1343	CZ	TYR A	200	-21.957	56.885	118.863	1.00 37.99	С
MOTA	1344	ОН	TYR A	200	-22.508	58.144	118.692	1.00 31.41	0
ATOM	1345	N	SER A		-18.382		116.548	1.00 28.17	N
					-17.278		115.937	1.00 30.84	Ċ
MOTA	1346	CA	SER A		17.600				
MOTA	1347	С	SER A		-17.668		115.552	1.00 28.96	C
MOTA	1348	0	SER A		-18.321		114.531	1.00 33.52	0
MOTA	1349	CB	SER A	201	-16.743	53.457	114.688	1.00 26.64	С
ATOM	1350	OG	SER A		-15.694		114.117	1.00 30.76	0
ATOM	1351	N	CYS A		-17.220		116.362	1.00 23.89	N
									č
ATOM	1352	CA	CYS A		-17.526		116.149	1.00 21.53	
ATOM	1353	С	CYS A		-16.596		115.165	1.00 21.15	C
ATOM	1354	0	CYS A	202	-15.539		114.772	1.00 19.31	0
MOTA	1355	CB	CYS A	202	-17.514	58.632	117.488	1.00 22.65	С
ATOM	1356	SG	CYS A		-18.438		118.743	1.00 42.79	S
ATOM	1357	N	GLU A		-17.030		114.758	1.00 16.28	N
							113.816	1.00 12.10	č
MOTA	1358	CA	GLU A		-16.309				Č
ATOM	1359	C	GLU A		-16.364		114.456	1.00 7.30	c
MOTA	1360	0	GLU A	203	-15.940		113.889	1.00 14.33	0
MOTA	1361	CB	GLU A		-17.036	60.667	112.460	1.00 3.31	С
ATOM	1362	CG	GLU A		-16.229		111.289	1.00 17.29	č
MOTA	1363	CD	GLU A		-16.838		109.957	1.00 28.70	č
									0
MOTA	1364		GLU A		-16.898		109.647	1.00 41.61	
MOTA	1365	OE2	GLU A		-17.272		109.222	1.00 46.00	0
MOTA						(2 070	11E EEO		A1
AIOH	1366	N	TRP A	204	-16.901		115.669	1.00 3.31	N
							116.496	1.00 3.31	C
ATOM ATOM	1366 1367 1368	N CA C	TRP A	204	-16.901 -17.071 -15.931	63.264			

ATOM	1369	0	TRP A	204	-16.138	65.412 115.924	1.00 22.89	0
ATOM	1370	ČВ	TRP A		-17.226	62.796 117.944	1.00 21.92	Č
ATOM	1371	CG	TRP A		-17.538	63.837 118.967	1.00 21.15	č
ATOM	1372		TRP A		-17.489	65.194 118.820	1.00 20.49	č
ATOM	1373		TRP A		-17.930	63.590 120.328	1.00 20.34	č
			TRP A			65.807 120.010	1.00 20.84	й
MOTA	1374				-17.826			
ATOM	1375	CE2			-18.102	64.846 120.948	1.00 25.47	C
ATOM	1376		TRP A		-18.153	62.424 121.082	1.00 15.62	c
ATOM	1377		TRP A		-18.488	64.974 122.283	1.00 32.99	C
ATOM	1378		TRP A		-18.538	62.551 122.408	1.00 21.84	Ç
ATOM	1379	CH2	TRP A	204	-18.702	63.820 122.995	1.00 31.17	С
ATOM	1380	N	PRO A	205	-14.705	63.919 116.799	1.00 27.07	N
ATOM	1381	CA	PRO A	205	-13.530	64.801 116.772	1.00 22.40	С
MOTA	1382	С	PRO A	205	-13.351	65.527 115.454	1.00 12.76	С
ATOM	1383	0	PRO A	205	-13.259	66.750 115.422	1.00 3.31	0
MOTA	1384	CB	PRO A		-12.370	63.848 117.031	1.00 32.69	C
ATOM	1385	CG	PRO A		-12.998	62.723 117.788	1.00 38.48	С
ATOM	1386	CD	PRO A		-14.290	62.529 117.057	1.00 37.95	c
ATOM	1387	N	LEU A		-13.273	64.757 114.373	1.00 13.29	N
ATOM	1388	CA	LEU A		-13.093	65.309 113.037	1.00 26.78	Ċ
ATOM	1389	c.	LEU A		-13.978	66.534 112.799	1.00 29.49	č
ATOM	1390	ŏ	LEU A		-13.658	67.386 111.968	1.00 31.08	ŏ
ATOM	1391	СВ	LEU A		-13.408	64.238 111.982	1.00 31.93	č
					-13.608	64.726 110.548	1.00 35.55	č
ATOM	1392	CG	LEU A		-12.286		1.00 44.15	č
ATOM	1393		LEU A			65.202 109.981		č
ATOM	1394	CD2			-14.170	63.613 109.706	1.00 41.86	
ATOM	1395	N	TYR A		-15.087	66.636 113.518	1.00 33.41	N
MOTA	1396	CA	TYR A		-15.958	67.769 113.297	1.00 42.82	c
ATOM	1397	Ç	TYR A		-15.765	68.959 114.229	1.00 45.66	C
MOTA	1398	0	TYR A		-16.081	70.092 113.854	1.00 38.41	0
ATOM	1399	CB	TYR A		-17.392	67.276 113.287	1.00 47.19	C
MOTA	1400	CG	TYR A		-17.693	66.544 112.009	1.00 48.83	C
ATOM	1401	CD1	TYR A		-17.773	67.236 110.814	1.00 48.74	C
ATOM	1402	CD2	TYR A		-17.877	65.161 111.984	1.00 49.99	C
MOTA	1403	CEI	TYR A		-18.031	66.582 109.623	1.00 47.79	С
ATOM	1404	CE2	TYR A		-18.137	64.494 110.794	1.00 47.50	С
ATOM	1405	CZ	TYR A	207	-18.213	65.219 109.617	1.00 46.58	С
ATOM	1406	ОН	TYR A	207	-18.482	64.602 108.418	1.00 52.10	0
ATOM	1407	N	MET A	208	-15.229	68.725 115.426	1.00 54.64	N
ATOM	1408	CA	MET A	208	-14.997	69.824 116.356	1.00 62.16	С
ATOM	1409	С	MET A	208	-13.958	70.772 115.774	1.00 62.53	С
ATOM	1410	Ó	MET A	208	-14.064	71.980 115.937	1.00 67.29	0
ATOM	1411	CB	MET A	208	-14.528	69.300 117.716	1.00 67.91	С
MOTA	1412	CG	MET A	208	-15.582	68.483 118.445	1.00 61.69	С
MOTA	1413	SD	MET A	208	-15.311	68.428 120.219	1.00 56.66	S
ATOM	1414	CE	MET A		-15.639	70.115 120.650	1.00 59.92	C
ATOM	1415	N	TRP A		-12.951	70.223 115.102	1.00 57.06	N
ATOM	1416	CA	TRP A		-11.937	71.057 114.492	1.00 56.77	c
ATOM	1417	Ċ	TRP A		-12.627	71.785 113.353	1.00 65.26	С
ATOM	1418	ō	TRP A		-13.511	71.236 112.705	1.00 63.65	ō
ATOM	1419	ĊВ	TRP A		-10.809	70.205 113.898	1.00 58.79	c
ATOM	1420	ĊĠ	TRP A		-10.199	69.256 114.863	1.00 63.98	Ċ
ATOM	1421	CD1	TRP A		-10.758	68.117 115.351	1.00 68.80	Č
ATOM	1422	CD2	TRP A		-8.923	69.384 115.503	1.00 69.51	č
ATOM	1423	NE1	TRP A		-9.915	67.524 116.259	1.00 75.45	Ň
	1424	CE5	TRP A		-8.780	68.281 116.372	1.00 73.01	č
ATOM ATOM	1425	CE3	TRP A		-7.886	70.324 115.427	1.00 77.58	č
	1426		TRP A		-7.642	68.091 117.166	1.00 77.64	č
ATOM					-6.752	70.134 116.219	1.00 81.84	č
ATOM	1427		TRP A		-6.643	69.024 117.076	1.00 79.91	č
ATOM	1428		TRP A				1.00 77.49	N
MOTA	1429	N	PRO A		-12.286	73.057 113.133	1.00 77.43	Č
MOTA	1430	CA	PRO A	210	-11.268	73.837 113.844	1.00 79.01	č
MOTA	1431	C	PRO A		-11.939	74.940 114.688		ō
MOTA	1432	0	PRO A		-11.673	76.139 114.516	1.00 75.34	c
ATOM	1433	CB	PRO A		-10.420	74.399 112.721	1.00 90.90	
ATOM	1434	CG	PRO A		-11.471	74.755 111.704	1.00 92.14	c
ATOM	1435	CD	PRO A		-12.462	73.592 111.761	1.00 83.73	Č.
ATOM	1436	N	PHE A		-12.815	74.512 115.590	1.00 76.58	Ŋ
ATOM	1437	CA	PHE A		-13.545	75.420 116.468	1.00 73.52	c
ATOM	1438	c	PHE A		-12.979	75.306 117.878	1.00 74.63	C
ATOM	1439	0	PHE A		-12.983	76.273 118.642	1.00 77.50	0
MOTA	1440	СВ	PHE A		-15.029	75.056 116.446	1.00 69.72	C
MOTA	1441	CG	PHE A		-15.570	74.891 115.059	1.00 67.85	C
MOTA	1442		PHE A		-15.525	75.948 114.158	1.00 66.48	C
ATOM	1443		PHE A		-16.054	73.664 114.624	1.00 68.57	C
ATOM	1444		PHE A		-15.946	75.780 112.855	1.00 63.01	C
ATOM	1445		PHE A		-16.478	73.494 113.310	1.00 66.32	C
ATOM	1446	CZ	PHE A		-16.420	74.556 112.431	1.00 58.64	C
ATOM	1447	N	GLN A		-12.485	74.122 118.216	1.00 73.94	N
ATOM	1448	CA	GLN A		-11.889	73.900 119.516	1.00 72.71	C
MOTA	1449	С	GLN A	212	-11.416	72.470 119.643	1.00 67.26	C

MOTA	1450	O GLN A 212	-12.089	71.534 119.197	1.00 66.79	0
MOTA	1451	CB GLN A 212		74.241 120.638	1.00 82.79	Ç
MOTA	1452	CG GLN A 212		73.590 120.537	1.00 94.62	С
MOTA	1453	CD GLN A 212	-15.224	74.107 121.597	1.00101.94	С
MOTA	1454	OE1 GLN A 212		75.280 121.596	1.00107.83	ŏ
ATOM	1455	NE2 GLN A 212			1.00101.67	N
				73.235 122.508		
MOTA	1456	N LYS A 213		72.313 120.235	1.00 66.10	N
MOTA	1457	CA LYS A 213	-9.673	71.002 120.431	1.00 72.81	С
MOTA	1458	C LYS A 213	-10.686	70.246 121.291	1.00 67.35	С
MOTA	1459	O LYS A 213		70.780 122.264	1.00 68.84	ō
ATOM	1460	CB LYS A 213			1.00 86.07	
				71.121 121.147		c
MOTA	1461	CG LYS A 213		72.359 120.742	1.00100.84	С
ATOM	1462	CD LYS A 213		73.597 121.312	1.00110.24	c
ATOM	1463	CE LYS A 213	-7.474	74.868 120.947	1.00115.97	c
MOTA	1464	NZ LYS A 213	-8.130	76.003 121.647	1.00113.67	N
MOTA	1465	N PRO A 214		68.994 120.925	1.00 63.52	N
ATOM	1466	CA PRO A 214		68.140 121.643	1.00 65.13	Ċ
						_
MOTA	1467	C PRO A 214		67.635 122.998	1.00 64.40	C
ATOM	1468	O PRO A 214		67.648 123.269	1.00 66.33	0
MOTA	1469	CB PRO A 214	-12.171	66.984 120.666	1.00 72.41	С
ATOM	1470	CG PRO A 214	-11.718	67.518 119.322	1.00 65.19	c
ATOM	1471	CD PRO A 214		68.333 119.694	1.00 61.91	Ċ
ATOM	1472	N ASN A 215		67.220 123.854	1.00 65.67	Ñ
	1473					
ATOM		CA ASN A 215		66.670 125.138	1.00 67.56	ç
MOTA	1474	C ASN A 215		65.171 124.904	1.00 62.72	Ç
ATOM	1475	O ASN A 215		64.479 125.173	1.00 59.58	0
ATOM	1476	CB ASN A 215	-12.998	67.014 126.235	1.00 81.52	С
ATOM	1477	CG ASN A 215		66.389 127.567	1.00 93.94	Ċ
ATOM	1478	OD1 ASN A 215		65.666 127.656	1.00 97.55	ŏ
ATOM	1479	ND2 ASN A 215				
ATOM	1480	N TYR A 216		66.667 128.608	1.00106.11	N
				64.681 124.381	1.00 58.40	N
ATOM	1481	CA TYR A 216		63.267 124.061	1.00 51.54	С
ATOM	1482	C TYR A 216	-11.016	62.331 125.217	1.00 52.52	С
ATOM	1483	O TYR A 216	-11.460	61.197 125.006	1.00 46.44	0
ATOM	1484	CB TYR A 216	-9.285	62.987 123.556	1.00 43.79	С
ATOM	1485	CG TYR A 216		63.400 122.122	1.00 33.73	Č
ATOM	1486	CD1 TYR A 216		62.772 121.064	1.00 33.94	č
ATOM	1487					
		CDZ TYR A 216		64.415 121.814	1.00 28.64	c
ATOM	1488	CE1 TYR A 216		63.146 119.726	1.00 22.17	С
ATOM	1489	CE2 TYR A 216	-7.868	64.795 120.477	1.00 22.68	С
ATOM	1490	CZ TYR A 216	-8.533	64.156 119.440	1.00 19.76	С
ATOM	1491	OH TYR A 216	-8.293	64.523 118.125	1.00 20.60	0
ATOM	1492	N THR A 217		62.788 126.440	1.00 51.36	N
ATOM	1493	CA THR A 217		61.952 127.603	1.00 50.03	Ĉ
	1494					c
ATOM				61.764 127.630	1.00 49.02	
ATOM	1495	O THR A 217		60.706 128.003	1.00 56.07	0
ATOM	1496	CB THR A 217	-10.591	62.623 128.909	1.00 51.67	С
ATOM	1497	OG1 THR A 217	-9.252	63.112 128.750	1.00 59.45	0
MOTA	1498	CG2 THR A 217	-10.606	61.618 130.053	1.00 50.17	С
ATOM	1499	N GLU A 218		62.810 127.217	1.00 44.02	N
ATOM	1500	CA GLU A 218		62.804 127.151	1.00 38.09	Ċ
ATOM	1501	C GLU A 218		61.779 126.101	1.00 30.35	č
ATOM	1502	O GLU A 218		60.714 126.408	1.00 31.42	0
ATOM	1503	CB GLU A 218		64.196 126.747	1.00 45.80	С
MOTA	1504	CG GLU A 218		64.351 126.544	1.00 56.73	Ċ
ATOM	1505	CD GLU A 218	-17.145	65.729 126.966	1.00 62.81	С
ATOM	1506	OE1 GLU A 218	-17.061	66.034 128.180	1.00 64.60	0
ATOM	1507	OE2 GLU A 218		66.506 126.093	1.00 51.07	Ó
ATOM	1508	N ILE A 219		62.116 124.854	1.00 20.92	N
MOTA	1509	CA ILE A 219	-15.092	61.260 123.711	1.00 16.81	č
ATOM	1510	C ILE A 219	-14.830	59.784 123.978		č
					1.00 19.92	Č
ATOM	1511	O ILE A 219	-15.674	58.938 123.685	1.00 26.14	0
MOTA	1512	CB ILE A 219	-14.233	61.659 122.517	1.00 18.69	С
ATOM	1513	CG1 ILE A 219	-14.460	63.136 122.189	1.00 28.40	С
MOTA	1514	CG2 ILE A 219	-14.546	60.759 121.343	1.00 3.31	С С С О
ATOM	1515	CD1 ILE A 219	-13.861	63.582 120.873	1.00 35.19	Ċ
ATOM	1516	N ARG A 220		59.488 124.511	1.00 22.71	Ŋ
ATOM	1517	CA ARG A 220	-13.250	58.121 124.815	1.00 32.74	ċ
ATOM	1518					ċ
		C ARG A 220	-14.251	57.426 125.723	1.00 36.46	Č
ATOM	1519	O ARG A 220	-14.291	56.202 125.778	1.00 41.29	ō
ATOM	1520	CB ARG A 220	-11.862	58.100 125.458	1.00 34.29	0 C C
ATOM	1521	CG ARG A 220	-11.602	56.838 126.251	1.00 44.46	С
ATOM	1522	CD ARG A 220	-10.137	56.579 126.435	1.00 58.36	С
MOTA	1523	NE ARG A 220	-9.873	55.151 126.320	1.00 81.14	N
ATOM	1524	CZ ARG A 220	-8.660	54.612 126.325	1.00 95.08	Ċ
ATOM	1525	NH1 ARG A 220	-7.589	55.383 126.442	1.00100.76	N
ATOM	1526			53.300 126.202	1.00103.75	N
		NH2 ARG A 220	-8.519			
ATOM	1527	N GLN A 221	-15.054	58.205 126.441	1.00 38.90	N
ATOM	1528	CA GLN A 221	-16.063	57.643 127.334	1.00 44.66	C
MOTA	1529	C GLN A 221	-17.346	57.461 126.563	1.00 42.86	С
ATOM	1530	O GLN A 221	-18.404	57.257 127.147	1.00 46.12	0

ATOM	1531	CB GLN	A 221	-16.354	58.583 128.493	1.00 51.89	C
ATOM	1532						
			A 221	-15.174	58.935 129.342	1.00 68.94	Ç
MOTA	1533	CD GLN	A 221	-15.591	59.700 130.569	1.00 74.55	C
ATOM	1534	OE1 GLN	A 221	-16.235	60.746 130.476	1.00 78.39	0
	1535						
MOTA		NE2 GLN		-15.230	59.182 131.733	1.00 80.79	N
MOTA	1536	N TYR	A 222	-17.247	57.542 125.244	1.00 45.18	N
MOTA	1537	CA TYR	A 222	-18.415	57.416 124.389	1.00 48.79	C
MOTA	1538		A 222	-18.160	56.677 123.082	1.00 50.19	C
MOTA	1539	O TYR	A 222	-19.099	56.411 122.326	1.00 52.15	0
MOTA	1540	CB TYR	A 222	-18.957	58.805 124.062	1.00 46.63	c
ATOM	1541		A 222	-19.687	59.469 125.197	1.00 54.32	C
MOTA	1542	CD1 TYR	A 222	-20.824	58.885 125.751	1.00 63.31	C
MOTA	1543	CD2 TYR		-19.280	60.707 125.680	1.00 63.38	Ċ
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ATOM	1544	CE1 TYR		-21.540	59.521 126.747	1.00 65.52	C
ATOM	1545	CE2 TYR	A 222	-19.990	61.353 126.681	1.00 68.64	C
MOTA	1546		A 222	-21.120	60.756 127.205	1.00 64.38	Ċ
MOTA	1547		A 222	-21.847	61.409 128.164	1.00 59.66	0
ATOM	1548	N CYS	A 223	-16.905	56.341 122.806	1.00 47.24	N
MOTA	1549	CA CYS	A 223	-16.600	55.672 121.555	1.00 43.05	C
MOTA	1550		A 223	-15.539	54.605 121.640	1.00 43.74	C
MOTA	1551	O CYS	A 223	-14.649	54.652 122.490	1.00 48.31	.0
MOTA	1552	CB CYS	A 223	-16.183	56.714 120.538	1.00 39.27	С
MOTA	1553		A 223	-17.410			Š
					58.054 120.464	1.00 34.96	
MOTA	1554	n asn	A 224	-15.644	53.636 120.741	1.00 38.10	N
ATOM	1555	CA ASN	A 224	-14.684	52.552 120.681	1.00 33.51	C
ATOM	1556		A 224	-13.505	53.023 119.840	1.00 31.77	Č
ATOM	1557		A 224	-12.395	52.498 119.939	1.00 33.20	0
MOTA	1558	CB ASN	A 224	-15.367	51.323 120.104	1.00 35.64	C
ATOM	1559		A 224	-16.398	50.759 121.056	1.00 35.91	č
MOTA	1560	OD1 ASN		-17.510	50.428 120.665	1.00 32.93	0
MOTA	1561	ND2 ASN	A 224	-16.026	50.646 122.323	1.00 23.40	N
MOTA	1562	N HIS	A 225	-13.772	54.029 119.014	1.00 33.52	N
ATOM	1563		A 225	-12.771	54.677 118.177	1.00 37.53	С
ATOM	1564	C HIS	A 225	-13.418	55.766 117.343	1.00 40.70	C
ATOM	1565	O HIS	A 225	-14.551	55.649 116.892	1.00 48.21	0
MOTA	1566		A 225				
				-11.966	53.679 117.322	1.00 37.41	¢
ATOM	1567	CG HIS	A 225	-12.763	52.542 116.770	1.00 35.26	Ċ
ATOM	1568	ND1 HIS	A 225	-13.722	52.703 115.793	1.00 34.57	N
ATOM	1569	CD2 HIS		-12.696	51.214 117.019	1.00 31.85	Ċ
MOTA	1570	CE1 HIS		-14.208	51.521 115.464	1.00 26.70	С
ATOM	1571	NE2 HIS	A 225	-13.602	50.601 116.193	1.00 27.50	N
ATOM	1572		A 226	-12.665	56.839 117.166	1.00 40.42	N N
ATOM	1573		A 226	-13.114	58.039 116.477	1.00 36.10	C
MOTA	1574	C TRP	A 226	-12.185	58.503 115.343	1.00 34.31	С
ATOM	1575		A 226	-10.994	58.189 115.340	1.00 37.97	ŏ
ATOM	1576		A 226	-13.201	59.127 117.530	1.00 26.81	С
ATOM	157 7	CG TRP	A 226	-11.949	59.110 118.387	1.00 31.92	С
ATOM	1578	CD1 TRP	A 226	-10.738	59.675 118.081	1.00 35.48	С
ATOM	1579	CD2 TRP		-11.746	58.383 119.613	1.00 33.48	č
MOTA	1580	NE1 TRP	A 226	-9.802	59.344 119.032	1.00 31.17	N
ATOM	1581	CE2 TRP .	A 226	-10.394	58.556 119.984	1.00 30.89	С
ATOM	1582	CE3 TRP		-12.575	57.607 120.433	1.00 35.17	č
. ATOM	1583	CZ2 TRP		-9.850	57.972 121.132	1.00 27.64	С
ATOM	1584	CZ3 TRP .	A 226	-12.030	57.027 121.576	1.00 35.04	С
MOTA	1585	CH2 TRP	A 226	-10.681	57.219 121.914	1.00 28.55	С
ATOM	1586		A 227				
				-12.735	59.254 114.389	1.00 27.57	N
ATOM	1587		A 227	-11.955	59.790 113.273	1.00 30.76	С
ATOM	1588	C ARG	A 227	-11.303	61.097 113.696	1.00 35.75	С
MOTA	1589	O ARG	A 227	-11.854	61.822 114.511	1.00 36.24	0
ATOM							_
	1590		A 227	-12.861	60.057 112.080	1.00 32.55	Ç
MOTA	1591	CG ARG	A 227	-13.215	58.830 111.283	1.00 33.73	С
ATOM	1592	CD ARG	A 227	-12.012	58.339 110.509	1.00 40.53	С
ATOM	1593		A 227	-11.628	59.262 109.450	1.00 31.33	N
MOTA	1594		A 227	-12.398	59.555 108.410	1.00 37.34	С
ATOM	1595	NH1 ARG	A 227	-13.593	58.999 108.294	1.00 30.72	N
ATOM	1596	NH2 ARG		-11.970	60.395 107.481	1.00 45.28	N
ATOM	1597		A 228	-10.137	61.406 113.145		
						1.00 34.78	N
MOTA	1598		A 228	-9.447	62.639 113.505	1.00 35.77	С
MOTA	1599	C ASN A	A 228	-9.193	63.528 112.311	1.00 39.43	С
MOTA	1600		A 228	-9.435	64.727 112.351	1.00 40.12	õ
MOTA	1601		A 228	-8.099	62.344 114.176	1.00 43.19	C
MOTA	1602		A 228	-8.245	61.660 115.525	1.00 56.29	С
MOTA	1603	OD1 ASN	A 228	-9.082	62.038 116.342	1.00 56.53	0
ATOM	1604	ND2 ASN		-7.413	60.654 115.769	1.00 66.96	N
MOTA	1605		A 229	-8.699	62.929 111.241	1.00 45.11	N
MOTA	1606	CA PHE	A 229	-8.377	63.681 110.038	1.00 42.74	С
MOTA	1607		A 229	-9.375	63.406 108.920	1.00 37.97	C
ATOM	1608		A 229	-10.218	62.516 109.034	1.00 31.13	ŏ
							ō
MOTA	1609		A 229	-6.964	63.315 109.571	1.00 38.01	Ç
MOTA	1610		A 229	-6.359	64.315 108.641	1.00 31.14	С
MOTA	1611	CD1 PHE		-6.097	65.610 109.077	1.00 29.66	c
							_

ATOM	1612	CD2	PHE A	220	-6.081	C2 053			20.00	_
ATOM	1613		PHE				107.319		38.07	C
					-5.568		108.212		45.65	C
ATOM	1614		PHE A		-5.553		106.440		39.87	С
ATOM	1615	cz		229	-5.297		106.886	1.00	44.87	С
MOTA	1616	N	ALA A		-9.266		107.841		40.67	N
ATOM	1617	CA	ALA A		-10.136	64.037	106.673	1.00	45.66	С
MOTA	1618	С	ALA A		-10.186	62.599	106.153	1.00	43.65	С
MOTA	1619	0	ALA A	230	-9.459	61.738	106.645	1.00	40.62	0
ATOM	1620	СВ	ALA A	230	-9.643	64.961	105.563	1.00	50.69	С
ATOM	1621	N	ASP A	231	-11.044	62.336	105.166	1.00	45.95	N
MOTA	1622	CA	ASP A	231	-11.106		104.594		46.27	C
MOTA	1623	С	ASP A	231	-9.771		103.974		39.23	č
ATOM	1624	0	ASP A		-8.800		104.111		47.23	ō
ATOM	1625	CB	ASP A		-12.164		103.523		57.49	č
MOTA	1626	CG	ASP A		-13.526		104.092		65.88	č
ATOM	1627		ASP A		-13.665		105.166		69.45	ŏ
ATOM	1628		ASP A		-14.455		103.466		71.23	Ö
ATOM	1629	N	ILE A		-9.721		103.465		24.74	
ATOM	1630	CA	ILE A							N
					-8.466		102.678		24.77	C
ATOM	1631	C	ILE A		-8.611		101.230		33.28	C
ATOM	1632	0	ILE A		-9.423		100.935		40.10	0
ATOM	1633	CB	ILE A		-7.837		103.561		25.18	C
MOTA	1634		ILE A		-6.497		102.984		18.54	С
MOTA	1635		ILE A		-8.824		103.709	1.00	33.13	С
ATOM	1636		ILE A		-5.676		103.976		18.15	С
ATOM	1637	N	ASP A		-7.826		100.339		40.33	N
ATOM	1638	CA	ASP A		-7.814	58.967			38.66	C
ATOM	1639	С	ASP A		-6.932	57.755	98.685	1.00	33.49	С
MOTA	1640	0	ASP A	233	-6.180	57.368	99.558	1.00	41.14	0
MOTA	1641	СВ	ASP A		-7.191	60.106			49.03	Ċ
MOTA	1642	CG	ASP A	233	-7.943	61.412	98.204		69.46	С
ATOM	1643	OD1	ASP A	233	-9.109	61.479			80.91	ō
ATOM	1644		ASP A		-7.349	62.372			76.24	ŏ
ATOM	1645	N	ASP A		-7.012	57.157			27.40	N
MOTA	1646	CA	ASP A		-6.143	56.037			28.65	Ċ
ATOM	1647	Ċ	ASP A		-4.904	56.746			29.50	Ċ
ATOM	1648	ŏ	ASP A		-4.595	56.662			28.14	Ö
ATOM	1649	СВ	ASP A		-6.777	55.147				
ATOM	1650	CG	ASP A		-5.995				31.14	C
ATOM	1651		ASP A			53.879			35.74	C
ATOM					-5.181	53.528			33.60	0
ATOM	1652		ASP A		-6.196	53.219	94.884		38.85	0
	1653	N	SER A		-4.213	57.458			27.77	N
MOTA	1654	CA	SER A		-3.032	58.242	97.187		27.25	С
ATOM	1655	C	SER A		-1.960	58.300	98.253		24.27	С
ATOM	1656	0	SER A		-2.235	58.128	99.444		20.06	0
MOTA	1657	CB	SER A		-3.457	59.674	96.880		36.86	C
MOTA	1658	OG	SER A		-4.172	60.234	97.980	1.00	27.30	0
MOTA	1659	N	TRP A		-0.733	58.573	97.831	1.00	19.59	N
MOTA	1660	CA	TRP A	236	0.365	58.683	98.787	1.00	22.03	С
MOTA	1661	С	TRP A	236	0.169	59.972	99.601	1.00	23.19	С
MOTA	1662	0	TRP A		0.300	59.981	100.834	1.00	27.64	0
MOTA	1663	CB	TRP A		1.698	58.719	98.041	1.00	23.81	С
MOTA	1664	CG	TRP A	236	2.952	58.843	98.887	1.00	15.41	С
ATOM	1665	CD1	TRP A	236	4.090	59.515	98.548	1.00	14.82	C
MOTA	1666	CD2	TRP A	236	3.206	58.260	100.180	1.00	20.27	C
MOTA	1667	NE1	TRP A	236	5.031	59.391	99.538		13.94	N
MOTA	1668		TRP A		4.519		100.552		16.04	Ċ
MOTA	1669	CE3	TRP A	236	2.454		101.056		31.69	Ċ
ATOM	1670		TRP A		5.098		101.761			č
ATOM	1671		TRP A		3.034		102.266		29.69	Č
MOTA	1672		TRP A		4.345		102.602		25.33	č
ATOM	1673	N	LYS A		-0.167	61.053	98.902		25.83	N
ATOM	1674	CA	LYS A		-0.396	62.347	99.532		34.83	Ċ
ATOM	1675	c	LYS A		-1.338		100.724		40.41	c
ATOM	1676	ò	LYS A		-0.959		101.866		44.29	Ö
MOTA	1677	СВ	LYS A		-0.990	63.316	98.517		41.22	Ċ
ATOM	1678	CG	LYS A		-1.285	64.702	99.054			C
ATOM	1679	CD	LYS A		-1.854	65.592	97.958		50.27	C
ATOM	1680	CE	LYS A						66.37	Č
ATOM	1681				-2.078	67.010	98.448		75.77	C
MOTA	1682	NZ	LYS A		-2.520	67.895	97.341		85.31	N
ATOM		N	SER A		-2.565		100.454		47.13	N
ATOM	1683	CA	SER A		-3.561		101.496		49.36	C
	1684	C	SER A		-2.979		102.716		41.87	C
ATOM	1685	0	SER A		-3.281		103.865		43.11	0
ATOM ATOM	1686	CB	SER A		-4.733		100.954		58.97	C
MOTA	1687	OG	SER A		-5.767		101.922		69.91	0
MOTA	1688	N	ILE A		-2.130		102.478		28.63	N
MOTA	1689	CA	ILE A		-1.538		103.596		25.25	C
ATOM	1690	c	ILE A		-0.518		104.307		21.50	C
ATOM	1691	0	ILE A		-0.537		105.535		16.28	0
ATOM	1692	CB	ILE A	239	-0.905	57.882	103.129	1.00	22.82	С

ATOM	1693	CCI	TIP	A 239	-2.004	56 013	102 000	1 00	30 64		~
ATOM	1694						103.085		30.64		č
ATOM	1695			A 239	0.247		104.031		18.42		C
				A 239	-1.507		103.020		32.95		C
MOTA	1696	N		A 240	0.370		103.539		20.19		N
MOTA	1697	CA		A 240	1.387		104.128		27.65		C
MOTA	1698	c		A 240	0.753		105.075		35.03		С
ATOM	1699	0		A 240	1.134		106.249	1.00	40.16		0
ATOM	1700	CB		A 240	2.158	62.242	103.025	1.00	36.93		С
MOTA	1701	CG	LYS	A 240	2.846	61.288	102.068	1.00	41.89		č
ATOM	1702	CD	LYS	A 240	3.361	62.019	100.851	1.00	50.69		č
MOTA	1703	CE	LYS	A 240	4.362	63.097	101.229	1.00	56.56		С
MOTA	1704	NZ	LYS	A 240	4.883	63.829	100.039		68.08		N
ATOM	1705	N	SER	A 241	-0.230		104.577		32.20		N
MOTA	1706	CA	SER	A 241	-0.901		105.406		33.89		C
MOTA	1707	C		A 241	-1.413		106.731		30.55		č
ATOM	1708	ō		A 241	-1.210		107.792		22.28		ŏ
ATOM	1709	ĊВ		A 241	-2.050		104.628		38.13		č
ATOM	1710	OG		A 241	-3.005		104.200		52.37		ŏ
ATOM	1711	N		A 242	-2.063		106.673		25.28		N
ATOM	1712	CA		A 242	-2.581		107.884		21.26		Ċ
ATOM	1713	C		A 242	-1.444		108.880		25.16		c
ATOM	1714	ŏ		A 242	-1.552		110.084				
ATOM	1715	ČВ		A 242	-3.348				25.43		0
MOTA	1716			A 242	-4.794		107.546		14.21		C
MOTA	1717			A 242	-3.336		107.175		17.53		_
ATOM	1718			A 242	-5.648		108.730		13.13		C
	1719						106.946		19.53		C
MOTA		N		A 243	-0.350		108.392		18.34		N
MOTA	1720	CA		A 243	0.760		109.284		10.66		C
ATOM	1721	C		A 243	1.168		109.817		19.50		C
MOTA	1722	0		A 243	1.044		111.015		21.45		0
ATOM	1723	CB		A 243	1.919		108.527		12.02		С
MOTA	1724	CG		A 243	1.811		108.356	1.00	7.19		С
MOTA	1725		LEU .		2.998		107.559	1.00	3.85		C
ATOM	1726		LEU .		1.785		109.709		13.48		C
MOTA	1727	N		A 244	1.628		108.893		17.56		N
MOTA	1728	CA		A 244	2.071		109.210		19.63		С
MOTA	1729	С		A 244	1.179		110.247	1.00	20.63		C
MOTA	1730	0		A 244	1.625	65.813	111.053	1.00	17.63		0
MOTA	1731	СВ		A 244	2.078	65.194	107.957	1.00	24.06		С
ATOM	1732	CG	ASP A	A 244	3.213	64.850	107.017	1.00	30.13		С
ATOM	1733	OD1	ASP A	A 244	4.343	64.624	107.499	1.00	37.52		0
MOTA	1734	OD2	ASP A	A 244	2.999	64.832	105.787	1.00	30.05		0
ATOM	1735	N	TRP A	A 245	-0.091	64.615	110.207	1.00	14.39		N
ATOM	1736	CA	TRP /	A 245	-1.068	65.168	111.111	1.00	13.88		С
MOTA	1737	С	TRP A	A 245	-1.029	64.455	112.452		16.86		č
MOTA	1738	0	TRP /	A 245	-0.912	65.091	113.506		20.50		ŏ
ATOM	1739	CB	TRP A	A 245	-2.457		110.493		17.62		^
ATOM	1740	CG	TRP /	A 245	-3.462		111.336		34.54	•	č
MOTA	1741	CD1	TRP /		-3.851		111.293		41.20	•	č
ATOM	1742		TRP /		-4.130		112.458		31.61		č
ATOM	1743		TRP A		-4.718		112.329		47.44		N
ATOM	1744		TRP A		-4.905		113.060		34.63		c
ATOM	1745		TRP A		-4.145		113.018		31.06		č
ATOM	1746		TRP A		-5.690		114.200		35.09		č
MOTA	1747		TRP A		-4.925		114.147		36.08		č
ATOM	1748		TRP A		-5.686		114.726		37.13		č
ATOM	1749	N	THR A		-1.136		112.415		17.45		N
ATOM	1750	CA	THR A		-1.097		113.643		11.72		C
ATOM	1751		THR A		0.267				13.47		
ATOM	1752	ō	THR A		0.421		115.518		3.31		Ö
MOTA	1753	СВ	THR A		-1.366		113.348		13.70		č
ATOM	1754		THR A		-2.734		113.651		22.35		0
MOTA	1755		THR A		-0.450		114.151		23.59		c
MOTA	1756	N	SER A		1.263		113.501		19.43		
ATOM	1757	CA	SER A		2.609		113.998		25.96		N
ATOM	1758	C	SER A		2.572		114.873		31.04		C
ATOM	1759	ò	SER A				114.073				C
ATOM	1760	СВ	SER A		2.858		112.803		29.04		0
ATOM	1761	OG	SER A		3.546						C
ATOM	1762		PHE A		4.873		113.220		40.79		0
ATOM	1763	N CA			2.170		114.224		39.78		N
ATOM	1764		PHE A		2.066		114.772		45.15		č
ATOM	1765	C			0.957		115.792		39.54		C
ATOM	1766	0	PHE A		0.544		116.041		44.71		0
	1767	CB	PHE A		1.832		113.594		64.18	9	c c c
ATOM ATOM		CG	PHE A		2.090		113.879		77.73	•	Ľ.
	1768		PHE A		3.376		114.137		86.07	9	<u>. </u>
MOTA	1769		PHE A		1.056		113.788		80.31	•	Č
ATOM ATOM	1770		PHE A		3.630		114.298		92.63	9	Č
MOTA	1771		PHE A		1.291		113.946		84.15		Č
MOTA MOTA	1772 1773	CZ N	PHE A		2.582		114.195		93.81		C
AIUM	1//3	14	ASN A	249	0.478	00.000	116.401	1.00	35.73	ì	N

ATOM	1774	CA	ASN	Α	249	-0.611	66.033	117.355	1.00 34.50	С
ATOM	1775	C	ASN			-0.607		118.504	1.00 40.42	С
ATOM	1776	ŏ	ASN			-1.376		119.445	1.00 42.06	ō
MOTA	1777	CB	ASN			-1.944		116.633	1.00 25.27	С
ATOM	1778	CG	ASN	Α	249	-2.435	67.247	116.144	1.00 27.53	С
ATOM	1779	OD1	ASN	Α	249	-2.504	68.208	116.914	1.00 34.54	0
ATOM	1780		ASN			-2.782		114.863	1.00 23.24	N
						0.256		118.429		
MOTA	1781	N	GLN						1.00 43.93	N
ATOM	1782	CA	GLN	Α	250	0.338	63.047	119.472	1.00 45.21	С
ATOM	1783	С	GLN	Α	250	0.044	63.578	120.876	1.00 45.89	C
MOTA	1784	0	GLN			-0.597	62.894	121.674	1.00 46.33	0
	1785	СВ	GLN			1.710		119.429	1.00 49.33	č
MOTA										~
MOTA	1786	CG	GLN			2.754		118.653	1.00 56.41	C
MOTA	1787	CD	GLN		250	3.999	62.330	118.422	1.00 67.52	С
MOTA	1788	OE1	GLN	Α	250	3.934	61.222	117.884	1.00 64.03	0
ATOM	1789		GLN			5.145		118.826	1.00 73.52	N
ATOM	1790		GLU			0.497		121.176	1.00 46.19	N
		N								
MOTA	1791	CA	GLU			0.255		122.490	1.00 53.10	c
MOTA	1792	С	GLU	Α	251	-1.149		122.981	1.00 55.27	С
MOTA	1793	0	GLU	Α	251	-1.327	64.466	124.031	1.00 63.00	0
ATOM	1794	CB	GLU			0.433	66.908	122.450	1.00 61.86	С
ATOM	1795	CG	GLU			1.837		122.738	1.00 77.46	Ċ
										č
ATOM	1796	CD	GLU			2.837		121.742	1.00 89.72	Č
ATOM	1797		GLU			3.019		121.679	1.00 97.55	0
ATOM	1798	OE2	GLU	Α	251	3.443	67.666	121.017	1.00 95.81	0
MOTA	1799	N	ARG	Α	252	-2.143	65.490	122.201	1.00 50.90	N
ATOM	1800	CA	ARG			-3.541		122.567	1.00 50.56	С
									1.00 46.98	č
MOTA	1801	С	ARG			-4.116		122.362		
MOTA	1802	0	ARG	Α	252	-4.856		123.215	1.00 53.85	0
ATOM	1803	CB	ARG	Α	252	-4.435	66.261	121.806	1.00 57.95	С
ATOM	1804	CG	ARG	А	252	-4.082	67.703	121.974	1.00 73.90	С
ATOM	1805	CD	ARG			-5.043		121.193	1.00 91.08	Ċ
									1.00109.12	N
MOTA	1806	NE	ARG			-4.553		121.068		
MOTA	1807	CZ	ARG			-3.422		120.452	1.00117.35	С
ATOM	1808	NH1	ARG	Α	252	-2.652	69.335	119.898	1.00121.60	N
MOTA	1809	NH2	ARG	Α	252	-3.056	71.540	120.391	1.00122.11	N
ATOM	1810	N	ILE			-3.789		121.240	1.00 34.95	N
									1.00 26.82	Ċ
MOTA	1811	CA	ILE			-4.349		120.939		Č
ATOM	1812	С	ILE	A	253	-3.613		121.402	1.00 34.17	С
MOTA	1813	0	ILE	Α	253	-4.170	59.911	122.146	1.00 35.29	0
MOTA	1814	CB	ILE	А	253	-4.590	61.847	119.447	1.00 12.97	С
MOTA	1815		ILE			-3.310		118.687	1.00 3.31	С
	1816					-5.712		119.039	1.00 24.79	c c
MOTA			ILE							Č
ATOM	1817	CD1	ILE			-3.460		117.175	1.00 14.82	С
MOTA	1818	N	VAL	Α	254	-2.374	60.561	120.949	1.00 42.48	N
MOTA	1819	CA	VAL	Α	254	-1.559	59.392	121.286	1.00 51.32	c c
ATOM	1820	C	VAL			-1.798		122.688	1.00 53.95	С
MOTA	1821	ŏ	VAL			-1.683		122.922	1.00 55.92	ō
										č
MOTA	1822	СВ	VAL			-0.049		121.164	1.00 49.29	
MOTA	1823		VAL			0.465		122.444	1.00 52 01	С
MOTA	1824	CG2	VAL	Α	254	0.717	58.427	120.872	1.00 50.05	С
ATOM	1825	N	ASP	Α	255	-2.136	59.721	123.609	1.00 56.09	N
MOTA	1826	CA	ASP			-2.362	59.387	125.010	1.00 63.32	С
						-3.674		125.344	1.00 58.30	Č
ATOM	1827	C	ASP							
ATOM	1828	0	ASP			-3.650		125.865	1.00 61.53	. 0
MOTA	1829	СB	ASP			-2.273		125.834	1.00 81.31	С
ATOM	1830	CG	ASP	Α	255	-1.609	60.459	127.163	1.00 92.58	С
MOTA	1831	OD1	ASP	Α	255	-1.664	61.381	128.007	1.00103.11	0
ATOM	1832		ASP			-1.028		127.355	1.00 95.27	0
						-4.810		125.060	1.00 47.34	N
ATOM	1833	N	VAL							Ċ
ATOM	1834	CA	VAL			-6.124	58./1/	125.339	1.00 26.26	
ATOM	1835	С	VAL			-6.393		124.612	1.00 20.16	С
ATOM	1836	0	VAL	Α	256	-7.515	56.896	124.638	1.00 21.60	0
ATOM	1837	CB	VAL	Α	256	-7.236	59.711	124.966	1.00 17.99	С
ATOM	1838		VAL			-7.333		126.003	1.00 15.54	Ċ
								123.608	1.00 11.70	č
ATOM	1839		VAL			-6.943		123.968	1.00 21.31	N
MOTA	1840	N	ALA			-5.365				
MOTA	1841	CA	ALA			-5.478		123.238	1.00 24.74	C
MOTA	1842	С	ALA			-5.261		124.143	1.00 28.46	С
ATOM	1843	Ó	ALA			-4.374	54.370	125.000	1.00 34.08	0
ATOM	1844	ČВ	ALA			-4.477		122.112	1.00 30.69	С
			GLY					123.935	1.00 27.17	N
ATOM	1845	N				-6.071				
ATOM	1846	CA	GLY			-5.958		124.731	1.00 34.38	c
MOTA	1847	С	GLY			-7.229		124.602	1.00 39.07	Ċ
ATOM	1848	0	GLY	Α	258	-8.186		123.994	1.00 46.72	0
ATOM	1849	N	PRO			-7.274	50.128	125.164	1.00 41.39	N
ATOM	1850	CA	PRO			-8.450		125.103	1.00 37.99	С
ATOM	1851	c	PRO			-9.781		125.261	1.00 38.04	č
								126.124	1.00 37.32	ŏ
ATOM	1852	0			259	-9.930				
ATOM	1853	CB			259	-8.191		126.230	1.00 41.03	C
MOTA	1854	CG	PRO	Α	259	-6.731	48.076	126.112	1.00 44.48	С

MOTA	1855	CD	DDO	A	259	-6.202	40 400	125.940	1 00	47.07	•
											C
MOTA	1856	N			260	-10.749		124.424		37.51	N
MOTA	1857	CA			260	-12.057		124.500	1.00	33.17	С
MOTA	1858	С	GLY	Α	260	-12.173	51.413	123.560	1.00	28.52	С
ATOM	1859	0	GLY	Α	260	-13.188	51.577	122.896	1.00	17.08	0
ATOM	1860	N	GLY		261	-11.132		123.511		34.58	N
ATOM	1861	CA	GLY		261	-11.138		122.631		44.49	
											C
ATOM	1862	С	GLY			-9.848		121.840		42.98	С
ATOM	1863	0	GLY	Α	261	-8.758	53.595	122.411	1.00	51.16	0
MOTA	1864	N	TRP	Α	262	-9.961	53.747	120.526	1.00	34.48	N
ATOM	1865	CA	TRP	Α	262	-8.775	53.919	119.692	1.00	28.58	С
ATOM	1866	c	TRP			-8.810		118.761		17.38	č
											Č
MOTA	1867	0	TRP			-9.877		118.407	1.00	6.05	0
MOTA	1868	CB	TRP		262	-8.559		118.809		35.71	С
MOTA	1869	CG	TRP	Α	262	-8.723		119.495	1.00	32.13	С
MOTA	1870	CD1	TRP	Α	262	-9.808	50.607	119.450	1.00	31.26	С
MOTA	1871	CD2	TRP	Α	262	-7.760	50.772	120.315	1.00	39.87	С
ATOM	1872		TRP			-9.582		120.192		37.75	N
ATOM	1873		TRP			-8.330		120.737		43.01	Ċ
MOTA	1874		TRP			-6.471		120.742		46.70	Č
MOTA	1875		TRP			-7.653		121.557	1.00	57.69	С
MOTA	1876	CZ3	TRP	Α	262	-5.796	50.208	121.562	1.00	57.75	С
MOTA	1877	CH2	TRP	Α	262	-6.391	49.001	121.962	1.00	65.10	С
MOTA	1878	N	ASN	Α	263	-7.625	55.565	118.360	1.00	10.39	N
MOTA	1879	CA	ASN			-7.521		117.409		18.03	С
ATOM	1880	c	ASN			-7.642		116.036		18.47	č
											,
ATOM	1881	0	ASN			-6.921		115.722		26.57	0
MOTA	1882	СВ	ASN			-6.182		117.545		23.92	С
MOTA	1883	CG	ASN	Α	263	-6.251	58.536	118.460	1.00	21.75	С
MOTA	1884	OD1	ASN	Α	263	-7.115	59.401	118.317	1.00	20.11	0
ATOM	1885		ASN			-5.332		119.399		16.20	N
ATOM	1886	N	ASP			-8.555		115.222	1.00	8.32	N
ATOM	1887	CA	ASP			-8.798		113.901		12.59	č
MOTA	1888	C	ASP			-8.518		112.695	1.00	11.85	C
ATOM	1889	0	ASP			-9.276		112.412	1.00	3.31	0
ATOM	1890	CB	ASP			-10.237		113.881	1.00	25.66	С
ATOM	1891	CG	ASP			-10.832		112.491	1.00	27.20	С
MOTA	1892	OD1	ASP	Α	264	-10.208	54.724	111.574	1.00	15.35	0
ATOM	1893	OD2	ASP	Α	264	-11.957	55.849	112.336	1.00	41.23	0
ATOM	1894	N	PRO	Α	265	~7.413	56.582	111.965	1.00	15.34	N
MOTA	1895	CA	PRO	Α	265	-6.863	57.251	110.771	1.00	23.99	С
MOTA	1896	C	PRO			-7.803		109.577		28.89	Ċ
ATOM	1897	ō	PRO			-8.107		108.945		35.15	ō
ATOM	1898	ČВ	PRO			-5.579		110.495		17.45	č
	1899					-5.192					č
MOTA		CG	PRO			-3.132		111.859		24.86	č
ATOM	1900	CD	PRO			-6.517		112.391		17.31	C
ATOM	1901	N	ASP			-8.207		109.272		35.35	N
ATOM	1902	CA	ASP	Α	266	-9.136		108.202	1.00	41.09	С
ATOM	1903	С	ASP	Α	266	-8.830	54.255	107.598	1.00	38.83	С
ATOM	1904	0	ASP	Α	266	-7.910	53.551	108.015	1.00	36.66	0
ATOM	1905	CB	ASP	Α	266	-9.162	56.664	107.092	1.00	45.23	С
ATOM	1906	CG	ASP	Α	266	-10.562	56.884	106.559	1.00	47.07	С
ATOM	1907	OD1	ASP			-11.405		106.792	1.00	48.02	0
ATOM	1908		ASP			-10.830		105.920		46.64	ō
ATOM	1909	N	MET			-9.619		106.604		36.60	N
	1910	CA	MET			-9.475		105.944		34.79	č
ATOM											
ATOM	1911	c	MET			-8.076		105.395		27.72	C
MOTA	1912	0	MET			-7.257		105.275		17.95	0
	1913	CB	MET			-10.510		104.828		37.05	Ç
MOTA	1914	CG	MET	Α	267	-11.920	52.734	105.337		38.73	С
ATOM	1915	SD	MET	Α	267	-13.059		104.118	1.00	59.81	S
ATOM	1916	CE	MET	Α	267	-12.830	55.134	104.314	1.00	67.70	С
ATOM	1917	N	LEU	Α	268	-7.816	51.092	105.103	1.00	26.33	N
	1918	CA	LEU			-6.560	50.641	104.530	1.00	23.79	С
	1919	C	LEU			-6.809		103.027		27.33	Ċ
	1920	ŏ	LEU			-7.592		102.572		36.49	ō
	1921	СВ	LEU			-6.169		105.097		19.73	č
	1922	CG	LEU			-5.596		106.516		23.04	č
										21.67	Ċ
	1923		LEU			-5.216		106.948			
	1924		LEU			-4.380		106.550		25.62	C
	1925	N	VAL			-6.151		102.256		27.46	N
	1926	CA	VAL			-6.334		100.813		33.63	C
	1927	С	VAL			-5.350		100.097		33.62	Ç
	1928	0	VAL			-5.174	50.597	98.880		44.00	0
ATOM	1929	CB	VAL	Α	269	-6.190		100.274		36.44	С
MOTA	1930	CG1	VAL	Α	269	-7.094	53.737	101.067	1.00	45.39	С
	1931		VAL			-4.737	53.255	100.379	1.00	45.21	С
	1932	N	ILE			-4.702		100.864		29.66	N
	1933	CA	ILE			-3.735		100.309		30.37	Ċ
ATOM	1934	Ċ	ILE			-4.487	47.621	99.458		33.11	č
	1935	ŏ	ILE			-5.477	47.038	99.916		31.89	ŏ
		-									-

MOTA	1936	СВ	715		270	2 25				1 00	22 60	_
						-2.95			101.446		27.69	
MOTA	1937	CG1			270	-2.04			102.162		43.55	
MOTA	1938	CG2	ILE	Α	270	-2.10	46.8	25	100.888	1.00	29.54	C
MOTA	1939	CD1	ILE	Α	270	-1.48			103.479	1.00	41.14	
ATOM	1940	N			271	-4.02					37.10	-
									98.231			
MOTA	1941	CA			271	-4.69			97.381		42.05	
MOTA	1942	С	GLY	Α	271	-5.414	47.0	78	96.219	1.00	45.94	C
MOTA	1943	0	GLY	Α	271	-5.97	46.4	17	95.342	1.00	46.95	
ATOM	1944	N			272	-5.39					49.29	-
									96.232			
MOTA	1945	CA			272	-6.01			95.189		50.77	
MOTA	1946	С	ASN	Α	272	-4.95	49.5	44	94.169	1.00	54.19	C
ATOM	1947	0	ASN	Α	272	-4.169	48.6	88	93.795	1.00	62.17	
ATOM	1948	CB	ASN	A	272	-6.61			95.774		57.02	
ATOM	1949	ĊĠ			272	-7.93						
									96.456		64.75	
MOTA	1950		ASN			-8.078			97.245		70.55	
MOTA	1951	ND2	ASN			-8.920	51.0	48	96.156	1.00	65.78	N
MOTA	1952	N	PHE	Α	273	-4.906	50.8	03	93.746	1.00	57.71	N
ATOM	1953	CA	PHE	Α	273	-3.961			92.706	1.00	60.84	C
MOTA	1954	C			273	-3.119			92.989		59.50	
ATOM	1955	0			273	-2.030			92.439		61.91	0
MOTA	1956	CB	PHE	Α	273	-4.712	51.4	64	91.391	1.00	60.01	C
MOTA	1957	CG	PHE	Α	273	-6.185	51.1	47	91.462	1.00	59.22	C
MOTA	1958	CDI	PHE			-6.76			90.534		54.75	Č
ATOM	1959		PHE			-6.989			92.475			
											58.02	
MOTA	1960	CE1			273	-8.124			90.615		51.25	
MOTA	1961	CE2	PHE	Α	273	-8.336	51.3	54	92.573	1.00	58.47	C
MOTA	1962	CZ	PHE	Α	273	-8.909	50.4	81	91.642	1.00	55.69	
MOTA	1963	N			274	-3.624			93.836		55.05	
	1964	CA										
MOTA					274	-2.914			94.139		44.40	
ATOM	1965	Ç			274	-1.57			94.829		39.16	C
MOTA	1966	0	GLY	Α	274	-0.753	55.3	62	94.769	1.00	47.25	0
ATOM	1967	N	LEU	Α	275	-1.344	53.3	07	95.475	1.00	28.25	N
MOTA	1968	CA			275	-0.091			96.183		27.58	
ATOM	1969	Ċ			275	0.928						
									95.542		32.09	c
ATOM	1970	0			275	0.601			94.977		42.20	
ATOM	1971	CB	LEU	Α	275	-0.360	52.6	40	97.609	1.00	16.36	С
ATOM	1972	CG	LEU	Α	275	-1.250	53.5	77	98.419	1.00	5.93	C
ATOM	1973	CD1			275	-1.093			99.888	1.00	3.31	č
ATOM	1974		LEU			-0.864						
									98.151	1.00	3.31	C
ATOM	1975	N			276	2.180			95.646		29.50	N
MOTA	1976	CA			276	3.314			95.136	1.00	36.25	C
ATOM	1977	С	SER	Α	276	3.451	50.7	35	96.104	1.00	35.37	С
ATOM	1978	0	SER	Α	276	2.738	50.6	77	97.100		27.12	Ó
MOTA	1979	CB	SER			4.594			95.219		46.24	č
ATOM	1980	ŌĞ										
			SER			5.122			96.541		42.54	0
MOTA	1981	N	TRP			4.371			95.833	1.00	37.28	N
ATOM	1982	CA	TRP	Α	277	4.540	48.7	40	96.762	1.00	32.97	С
MOTA	1983	С	TRP	Α	277	5.008	49.30	64	98.048	1.00	27.84	С
ATOM	1984	0	TRP	Α	277	4.267			99.028		25.18	ō
ATOM	1985	ĊВ	TRP			5.586			96.292			
											44.35	C
ATOM	1986	CG	TRP			5.823	46.6		97.324		45.64	С
MOTA	1987		TRP			7.004	46.38	89	97.961	1.00	49.91	С
MOTA	1988	CD2	TRP	Α	277	4.839	45.79	97	97.898	1.00	45.05	С
MOTA	1989	NE1	TRP	А	277	6.815			98.898		47.99	N
ATOM	1990		TRP			5.496	45.0		98.884		44.93	c
	1991	CE3										
ATOM			TRP			3.465			97.680		43.84	Ċ
ATOM	1992		TRP			4.820			99.657		41.10	С
MOTA	1993	CZ3	TRP	Α	277	2.793	44.6	37	98.447	1.00	38.42	С
MOTA	1994	CH2	TRP	А	277	3.474	43.87	75	99.424	1.00	38.38	С
MOTA	1995	N	ASN			6.237	49.86		98.042		27.92	Ň
MOTA	1996											
		CA	ASN			6.792	50.45		99.252		33.66	C
MOTA	1997	Ç	ASN			5.887	51.4		99.939		36.34	С
MOTA	1998	0	ASN			6.108	51.82	21	101.096		40.73	0
MOTA	1999	CB	ASN	Α	278	8.169	51.09	51	98.967	1.00	29.87	С
MOTA	2000	CG	ASN			9.234	49.98		98.822		31.51	č
	2001		ASN			9.542	49.27		99.778		31.53	ŏ
	2002		ASN			9.791	49.86		97.618		36.12	N
	2003	N	GLN			4.869	51.95		99.238		35.96	N
	2004	CA	GLN	Α	279	3.945	52.88		99.868	1.00	29.77	С
MOTA	2005	С	GLN			2.915	52.08	33	100.678		26.47	С
	2006	Õ	GLN			2.468	52.52		101.732		16.00	ō
	2007	СВ	GLN			3.267	53.74		98.810		27.43	č
												č
	2008	CG	GLN			4.137	54.89		98.349		28.81	C
	2009	CD	GLN			3.737	55.41		96.991	1.00	34.90	С
MOTA	2010	OE1	GLN	Α	279	2.550	55.56	52	96.694	1.00	40.75	0
	2011		GLN			4.727	55.71		96.155		39.37	N
	2012	N	GLN			2.567			100.196		30.38	N
	2013											
		CA	GLN			1.595			100.881		30.96	C
	2014	C	GLN			2.139			102.189		30.35	C
	2015	0	GLN			1.480			103.228	1.00	33.06	0
MOTA	2016	CB	GLN			1.164	48.89	95	99.999		31.33	С
												_

MOTA	2017	CG	GLN A 28	_		1.00 36.80	С
MOTA	2018	CD	GLN A 28			1.00 37.60	Č
MOTA	2019		1 GLN A 28 2 GLN A 28			1.00 38.74	0
ATOM	2020 2021	NE.	VAL A 28			1.00 34.63	N
MOTA MOTA	2021	CA	VAL A 28			1.00 31.13	N C
ATOM	2023	c	VAL A 28			1.00 33.92	Ċ
MOTA	2024	ŏ	VAL A 28			1.00 31.74	o
ATOM	2025	СВ	VAL A 28			1.00 34.38	č
ATOM	2026		VAL A 28			1.00 34.63	č
MOTA	2027		2 VAL A 28			1.00 42.38	č
MOTA	2028	N	THR A 28:	2 4.172	50.743 104.008	1.00 31.90	N
MOTA	2029	CA	THR A 283			1.00 27.13	С
ATOM	2030	С	THR A 28			1.00 26.03	С
ATOM	2031	0	THR A 282			1.00 28.72	0
MOTA	2032	CB	THR A 28			1.00 26.85	C
MOTA MOTA	2033 2034		L THR A 282 2 THR A 283			1.00 31.54 1.00 20.56	0 C
ATOM	2035	N N	GLN A 28			1.00 20.36	N
ATOM	2036	CA	GLN A 28			1.00 18.53	č
ATOM	2037	Č	GLN A 28			1.00 18.82	č
MOTA	2038	0	GLN A 283	0.014		1.00 21.00	ō
MOTA	2039	CB	GLN A 283		52.343 104.654	1.00 15.63	С
ATOM	2040	CG	GLN A 28			1.00 19.59	С
MOTA	2041	CD	GLN A 28		52.386 104.495	1.00 27.53	C
MOTA MOTA	2042 2043		GLN A 283			1.00 31.55	0
ATOM	2043	NEZ	MET A 284		53.421 104.587 49.987 106.111	1.00 35.44	N
MOTA	2045	CA	MET A 284		48.833 106.974	1.00 3.31 1.00 3.31	N C
ATOM	2046	c	MET A 284		48.904 108.180	1.00 3.31	č
ATOM	2047	ō	MET A 284		48.769 109.307	1.00 7.85	ŏ
MOTA	2048	CB	MET A 284	0.488	47.552 106.203	1.00 8.74	Č
MOTA	2049	CG	MET A 284		46.278 106.980	1.00 6.90	C
MOTA	2050	SD	MET A 284		45.915 107.116	1.00 16.54	S
ATOM ATOM	2051	CE	MET A 284		46.136 108.956	1.00 6.72	C
ATOM	2052 2053	N CA	ALA A 285 ALA A 285		49.120 107.944	1.00 4.64	N
ATOM	2054	C	ALA A 285		49.193 109.041 50.228 110.059	1.00 11.01	C C
ATOM	2055	ŏ	ALA A 285		49.959 111.261	1.00 14.68	Ö
ATOM	2056	ČВ	ALA A 285		49.530 108.521	1.00 19.24	č
ATOM	2057	N	LEU A 286		51.419 109.585	1.00 11.37	พ
MOTA	2058	CA	LEU A 286		52.471 110.500	1.00 14.05	Ċ
ATOM	2059	C	LEU A 286		52.342 111.166	1.00 17.26	С
MOTA	2060	0	LEU A 286		52.755 112.321	1.00 15.35	0
ATOM	2061	CB	LEU A 286		53.826 109.826	1.00 8/.12	c
ATOM ATOM	2062 2063	CG	LEU A 286		54.187 109.997	1.00 7.08	C
ATOM	2064		LEU A 286		54.888 108.795 55.041 111.246	1.00 9.40 1.00 3.31	C C
ATOM	2065	N	TRP A 287		51.774 110.491	1.00 17.25	N
MOTA	2066	CA	TRP A 287		51.613 111.168	1.00 29.47	Ċ
MOTA	2067	С	TRP A 287	-1.166	50.692 112.360	1.00 31.64	Ċ
ATOM	2068	0	TRP A 287		50.850 113.419	1.00 33.74	0
ATOM	2069	CB	TRP A 287		50.998 110.256	1.00 33.70	С
ATOM ATOM	2070 2071	CG	TRP A 287		52.007 109.618	1.00 39.21	Ç
ATOM	2072		TRP A 287		51.949 109.526 53.217 108.969	1.00 47.57 1.00 36.94	c c
ATOM	2073		TRP A 287	-5.197	53.046 108.861	1.00 51.26	Ŋ
ATOM	2074		TRP A 287		53.841 108.509	1.00 40.64	ċ
ATOM	2075		TRP A 287		53.834 108.730		č
MOTA	2076		TRP A 287		55.056 107.823	1.00 40.95	С
ATOM	2077		TRP A 287		55.047 108.043	1.00 37.09	С
ATOM	2078		TRP A 287		55.643 107.599	1.00 35.17	C
ATOM ATOM	2079 2080	N CA	ALA A 288 ALA A 288		49.740 112.178 48.809 113.235	1.00 26.74	N
ATOM	2081	c	ALA A 288		49.570 114.388	1.00 26.87 1.00 29.10	C C
ATOM	2082	ō	ALA A 288		49.296 115.560	1.00 29.38	ŏ
MOTA	2083	СВ	ALA A 288		47.755 112.706	1.00 25.97	č
ATOM	2084	N	ILE A 289	1.616	50.525 114.059	1.00 26.15	N
ATOM	2085	CA	ILE A 289		51.310 115.089	1.00 21.64	С
MOTA MOTA	2086 2087	C O	ILE A 289 ILE A 289		52.166 115.840	1.00 21.16	c
ATOM	2088	СВ	ILE A 289		52.349 117.045 52.254 114.507	1.00 18.99 1.00 20.59	O C
ATOM	2089		ILE A 289		51.441 113.947	1.00 20.39	c
ATOM	2090		ILE A 289		53.233 115.593	1.00 29.08	С
MOTA	2091		ILE A 289	5.332	50.768 115.030	1.00 17.70	С
MOTA	2092	N	MET A 290		52.683 115.128	1.00 23.88	N
MOTA	2093 -		MET A 290		53.550 115.734	1.00 30.50	c
ATOM ATOM	2094 2095	С 0	MET A 290 MET A 290		52.847 116.198 53.425 116.084	1.00 30.09	c
ATOM	2096	СВ	MET A 290		54.643 114.755	1.00 35.20 1.00 32.03	0 C
ATOM	2097	CG	MET A 290		55.363 114.077	1.00 39.82	č
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2126 2127 2128 2129 2130 2132 2133 2134 2135 2136 2137 2138 2140 2141 2142 2144 2145 2146 2147 2148 2150 2151 2155 2156 2156 2156 2166 2167 2168 2169 2170 2170 2171 2172 2173	2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2110 2111 2111 2111 2111 2111 2111
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107. 826 106. 398 108. 128 109. 284 110. 538 109. 120 111. 617 110. 192 111. 446 103. 506 104. 008 103. 740 104. 497 103. 898 104. 798 102. 308 101. 435 100. 097 99. 404 101. 585 100. 025 100. 025 100. 025 100. 025 100. 025 100. 297 100. 934 96. 765 96. 223 98. 771 98. 730 100. 257 100. 934 96. 765 96. 223 96. 440 95. 710 94. 736 94. 144 94. 685 93. 132 97. 753 96. 684 96. 753 97. 750 96. 684 96. 753 97. 750 96. 684 96. 753 97. 750 96. 684 96. 753 97. 750 96. 684 96. 753 97. 750 97. 688	113.005 111.564 116.725 117.187 116.582 117.271 118.700 115.269 114.554 114.956 113.951 113.506 113.951 113.506 112.092 111.265 113.527 114.504 119.610 109.638 109.795 110.654 111.584 111.584 111.584 111.011 108.734
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ATOM	2179	CG	ADC		201	14 004	40.079	04 705	1 00	24 05	С
			ARG			-14.984		94.705		24.85	
MOTA	2180	CD			301	-16.235	40.592	94.000		25.32	Ç
MOTA	2181	NE			301	-16.077	41.935	93.443		41.71	N
MOTA	2182	CZ	ARG	Α	301	-17.092	42.734	93.121	1.00	44.10	С
ATOM	2183	NHl	ARG	Α	301	-18.343	.42.330	93.308	1.00	50.21	N
MOTA	2184	NH2	ARG	Α	301	-16.855	43.927	92.591	1.00	42.60	N
MOTA	2185	N	HIS			-10.878	40.889	93.415		63.36	N
ATOM	2186	CA	HIS			-9.731	41.118	92.565		70.59	Ċ
ATOM	2187	Ċ	HIS			-8.688	41.887	93.338	1.00	66.36	č
ATOM	2188	ŏ	HIS			-8.665	43.112	93.328	1.00	73.44	ŏ
ATOM	2189	СВ									Č
			HIS			-10.185	41.869	91.324	1.00	77.08	c
ATOM	2190	CG	HIS			-11.304	41.185	90.607		87.66	C
ATOM	2191	_	HIS			-11.985	41.760	89.558		94.33	N
MOTA	2192		HIS			-11.867	39.968	90.799		93.17	С
MOTA	2193	CEl	HIS	Α	302	-12.920	40.929	89.136	1.00	95.03	С
MOTA	2194	NE2	HIS	Α	302	-12.869	39.834	89.873	1.00	96.98	N
MOTA	2195	N	ILE	Α	303	-7.826	41.137	94.013	1.00	53.55	N
MOTA	2196	CA	ILE	Α	303	-6.771	41.706	94.827		35.96	С
MOTA	2197	C	ILE			-5.493	40.928	94.609		34.98	C
MOTA	2198	Õ	ILE			-5.501	39.701	94.600		29.95	ō
ATOM	2199	СВ	ILE			-7.135	41.631	96.316		27.37	č
ATOM	2200		ILE			-6.021	42.250	97.160		23.79	č
MOTA	2201		ILE			-7.341	40.183	96.716	1.00	32.58	
ATOM	2202		ILE			-6.378	42.429	98.601		29.68	C
ATOM	2203	N	SER			-4.397	41.655	94.436	1.00	33.35	N
ATOM	2204	CA	SER			-3.086	41.056	94.218		29.72	Č
ATOM	2205	Ċ	SER			-2.734	40.021	95.283		24.66	c
MOTA	2206	0	SER			-3.131	40.143	96.444		21.66	
MOTA	2207	CB	SER	Α	304	-2.024	42.159	94.191	1.00	37.18	С
MOTA	2208	OG	SER	Α	304	-2.505	43.327	94.844	1.00	41.23	0
MOTA	2209	N	PRO	Α	305	-1.983	38.981	94.904	1.00	28.02	N
MOTA	2210	CA	PRO	Α	305	-1.610	37.957	95.881	1.00	31.32	С
MOTA	2211	Ċ	PRO			-0.597	38.587	96.792		35.76	č
ATOM	2212	ō	PRO			-0.626	38.392	97.999		33.70	ŏ
ATOM	2213	ĊВ	PRO		305	-0.979	36.866	95.025	1.00	31.17	č
ATOM	2214	CG	PRO			-1.551	37.108	93.662		36.08	č
	2215	CD	PRO		305	-1.528	38.601	93.563	1.00	36.70	č
ATOM											
ATOM	2216	N	GLN			0.302	39.351	96.177		42.85	N
ATOM	2217	CA	GLN		306	1.357	40.046	96.899	1.00	57.20	C
ATOM	2218	C	GLN			0.745	40.974	97.942		57.39	Č
MOTA	2219	0	GLN			1.282	41.138	99.040		57.53	0
MOTA	2220	CB	GLN			2.243	40.837	95.923		66.11	С
ATOM	2221	CG	GLN	Α	306	1.492	41.722	94.945	1.00	85.74	С
ATOM	2222	CD	GLN	Α	306	2.427	42.537	94.062	1.00	95.69	С
ATOM	2223	OE1	GLN	Α	306	3.256	41.987	93.337	1.00	94.96	0
ATOM	2224	NE2	GLN	Α	306	2.294	43.857	94.119	1.00	99.44	N
MOTA	2225	N	ALA	Α	307	-0.395	41.566	97.605	1.00	57.94	N
MOTA	2226	CA	ALA			-1.076	42.463	98.524		51.17	С
ATOM	2227	Ċ	ALA			-1.655	41.654	99.667	1.00	44.95	Č
ATOM	2228	ō	ALA			-1.232		100.805		39.07	ō
ATOM	2229	СВ	ALA		307	-2.179	43.202	97.809		55.61	č
ATOM	2230	N	LYS			-2.621	40.796	99.352		42.01	. N
ATOM	2231	CA	LYS			-3.268		100.350		47.04	č
						-2.281		101.354		50.29	
ATOM	2232	C	LYS								C
ATOM	2233	0				-2.623		102.513		47.87	0
ATOM	2234	CB	LYS			-3.994	38.784	99.671		55.40	C
MOTA	2235	CG	LYS		308	-4.576		100.662		60.40	C
MOTA	2236	CD	LYS		308	-4.896		100.006		67.45	C
MOTA	2237	CE	LYS			-3.630	35.772	99.525		70.11	C
MOTA	2238	NZ	LYS			-3.911		99.008		71.25	N
MOTA	2239	N	ALA			-1.064		100.890		51.68	N
ATOM	2240	CA	ALA			-0.020		101.736		47.05	С
ATOM	2241	C	ALA			0.271	39.497	102.860		41.92	С
ATOM	2242	0	ALA	Α	309	0.223	39.152	104.043	1.00	39.00	0
ATOM	2243	CB	ALA	Α	309	1.235	38.288	100.929	1.00	48.75	С
ATOM	2244	N	LEU	Α	310	0.575	40.725	102.473	1.00	38.55	N
MOTA	2245	CA	LEU	Α	310	0.862	41.776	103.431	1.00	35.05	C
ATOM	2246	C	LEU			-0.327		104.350		31.60	C
MOTA	2247	Ō	LEU			-0.208		105.546		36.47	0
MOTA	2248	СB	LEU			1.156		102.692		40.89	Ċ
ATOM	2249	CG	LEU			1.351		103.492		41.10	ċ
ATOM	2250		LEU			2.416		104.544		53.29	č
ATOM	2251		LEU			1.742		102.549		32.28	č
ATOM	2252	N	LEU			-1.475		103.782		31.14	N
ATOM	2253	CA	LEU			-2.695		104.554		33.68	c.
ATOM	2254	c	LEU			-2.941		105.655		28.45	c c
ATOM	2255	ŏ	LEU			-3.516		106.724		17.90	ŏ
MOTA	2256	СВ	LEU			-3.896		103.603		30.88	č
MOTA	2257	CG	LEU			-4.044		102.895		37.10	č
MOTA	2258		LEU			-4.744		101.566		32.41	č
ATOM	2259		LEU			-4.805		103.803		41.72	č
				••		7.003					•

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ATON 2335 CG GLN A 321 -5.033 42.376 116.132 1.00 44.04 ATOM 2336 CD GLN A 321 -6.282 43.051 116.621 1.00 38.41 ATON 2337 OE1 GLN A 321 -6.794 42.726 117.686 1.00 20.43 ATOM 2338 NE2 GLN A 321 -6.785 43.995 115.843 1.00 37.61 ATOM 2339 N ASP A 322 -1.898 44.067 119.479 1.00 34.86	C	0
ATON 2335 CG GLN A 321 -5.033 42.376 116.132 1.00 44.04 ATOM 2336 CD GLN A 321 -6.282 43.051 116.621 1.00 38.41 ATON 2337 OE1 GLN A 321 -6.794 42.726 117.686 1.00 20.43 ATOM 2338 NE2 GLN A 321 -6.785 43.995 115.843 1.00 37.61 ATOM 2339 N ASP A 322 -1.898 44.067 119.479 1.00 34.86		С
ATOM 2336 CD GLN A 321 -6.282 43.051 116.621 1.00 38.41 ATOM 2337 OE1 GLN A 321 -6.794 42.726 117.686 1.00 20.43 ATOM 2338 NE2 GLN A 321 -6.785 43.995 115.843 1.00 37.61 ATOM 2339 N ASP A 322 -1.898 44.067 119.479 1.00 34.86	ř	Č
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MOTA	2341 C ASP A 322	-2.363 44.148 121.849 1.00 29.16	C
MOTA MOTA	2342 O ASP A 322 2343 CB ASP A 322	-3.154 45.089 121.773 1.00 29.97	0
ATOM	2344 CG ASP A 322	-0.175 44.993 120.944 1.00 40.79 0.655 44.782 122.180 1.00 43.03	c
ATOM	2345 OD1 ASP A 322		C
ATOM	2346 OD2 ASP A 322	1.207 43.675 122.350 1.00 32.44 0.757 45.735 122.972 1.00 51.49	0
ATOM	2347 N PRO A 323	-2.405 43.258 122.846 1.00 26.74	N
ATOM	2348 CA PRO A 323	-3.383 43.290 123.935 1.00 31.97	Ċ
ATOM	2349 C PRO A 323	-3.221 44.500 124.811 1.00 35.44	č
ATOM	2350 O PRO A 323	-4.189 45.007 125.369 1.00 43.01	ŏ
MOTA	2351 CB PRO A 323	-3.083 42.010 124.691 1.00 39.61	č
ATOM	2352 CG PRO A 323	-1.584 41.978 124.624 1.00 39.47	č
ATOM	2353 CD PRO A 323	-1.309 42.325 123.163 1.00 35.67	. с
ATOM	2354 N LEU A 324	-1.979 44.947 124.925 1.00 36.88	N
ATOM	2355 CA LEU A 324	-1.653 46.084 125.758 1.00 40.93	С
ATOM	2356 C LEU A 324	-2.498 47.299 125.407 1.00 40.56	č
MOTA	2357 O LEU A 324 2358 CB LEU A 324	-3.158 47.872 126.275 1.00 45.00	0
MOTA ATOM	2358 CB LEU A 324 2359 CG LEU A 324	-0.169 46.427 125.628 1.00 46.67 0.519 46.892 126.915 1.00 54.17	Č
ATOM	2360 CD1 LEU A 324	1.848 47.528 126.556 1.00 62.38	Ċ
ATOM	2361 CD2 LEU A 324	-0.355 47.894 127.656 1.00 53.61	č
ATOM	2362 N GLY A 325	-2.463 47.699 124.139 1.00 38.97	N
MOTA	2363 CA GLY A 325	-3.242 48.846 123.708 1.00 41.98	Ċ
MOTA	2364 C GLY A 325	-2.527 50.166 123.912 1.00 47.29	С
MOTA	2365 O GLY A 325	-3.148 51.170 124.264 1.00 52.51	0
MOTA	2366 N LYS A 326	-1.217 50.163 123.696 1.00 48.67	N
ATOM	2367 CA LYS A 326	-0.414 51.368 123.850 1.00 49.67	C
ATOM ATOM	2368 C LYS A 326 2369 O LYS A 326	-0.066 51.915 122.476 1.00 49.39	C
ATOM	2369 O LYS A 326 2370 CB LYS A 326	0.798 51.373 121.801 1.00 55.07 0.862 51.038 124.622 1.00 56.04	0
ATOM	2371 CG LYS A 326	0.628 50.710 126.086 1.00 73.85	C C
ATOM	2372 CD LYS A 326	0.246 51.950 126.890 1.00 82.94	č
ATOM	2373 CE LYS A 326	1.430 52.903 127.054 1.00 88.67	č
MOTA	2374 NZ LYS A 326	1.079 54.124 127.836 1.00 93.02	N
MOTA	2375 N GLN A 327	-0.724 52.998 122.071 1.00 48.25	N
ATOM	2376 CA GLN A 327	-0.491 53.573 120.746 1.00 50.19	С
ATOM	2377 C GLN A 327	0.920 54.090 120.541 1.00 45.92	С
MOTA MOTA	2378 O GLN A 327 2379 CB GLN A 327	1.492 54.715 121.423 1.00 47.59	0
ATOM	2379 CB GLN A 327 2380 CG GLN A 327	-1.504 54.687 120.457 1.00 46.44 -1.652 55.028 118.977 1.00 36.98	C
MOTA	2381 CD GLN A 327	-1.652 55.028 118.977 1.00 36.98 -3.034 55.579 118.640 1.00 41.12	C
ATOM	2382 OE1 GLN A 327	-4.041 54.862 118.680 1.00 47.47	ŏ
ATOM	2383 NE2 GLN A 327	-3.085 56.858 118.309 1.00 34.38	N
MOTA	2384 N GLY A 328	1.470 53.820 119.361 1.00 36.61	N
MOTA	2385 CA GLY A 328	2.818 54.249 119.043 1.00 29.84	С
ATOM	2386 C GLY A 328	2.895 55.741 118.822 1.00 27.35	С
ATOM	2387 O GLY A 328	1.923 56.463 119.057 1.00 29.82	0
MOTA MOTA	2388 N TYR A 329 2389 CA TYR A 329	4.050 56.202 118.358 1.00 29.39	N
ATOM	2389 CA TYR A 329 2390 C TYR A 329	4.268 57.622 118.118 1.00 35.23 5.595 57.878 117.421 1.00 37.00	C
ATOM	2391 O TYR A 329	6.515 57.060 117.470 1.00 36.29	C O
ATOM	2392 CB TYR A 329	4.276 58.369 119.443 1.00 38.53	č
ATOM	2393 CG TYR A 329	5.275 57.798 120.422 1.00 46.66	č
MOTA	2394 CD1 TYR A 329	6.643 57.993 120.250 1.00 48.72	Ċ
MOTA	2395 CD2 TYR A 329	4.850 57.025 121.508 1.00 51.95	0 0 0
ATOM	2396 CE1 TYR A 329	7.562 57.430 121.136 1.00 49.58	С
ATOM ATOM	2397 CE2 TYR A 329 2398 CZ TYR A 329	5.759 56.461 122.397 1.00 51.04	
ATOM	2398 CZ TYR A 329 2399 OH TYR A 329	7.111 56.665 122.207 1.00 46.71 8.015 56.100 123.078 1.00 44.19	C
ATOM	2400 N GLN A 330	5.693 59.036 116.787 1.00 37.71	O N
ATOM	2401 CA GLN A 330	6.915 59.419 116.108 1.00 32.77	Ċ
ATOM	2402 C GLN A 330	7.949 59.763 117.168 1.00 34.91	č
MOTA	2403 O GLN A 330	7.664 60.480 118.118 1.00 29.29	0
MOTA	2404 CB GLN A 330	6.661 60.636 115.228 1.00 29.38	c c
MOTA	2405 CG GLN A 330	7.876 61.132 114.480 1.00 37.88	Ç
ATOM	2406 CD GLN A 330	7.614 62.464 113.828 1.00 50.08	Č
MOTA MOTA	2407 OE1 GLN A 330 2408 NE2 GLN A 330	7.393 63.461 114.508 1.00 50.66 7.621 62.489 112.507 1.00 52.87	0
ATOM	2400 NEZ GEN A 330 2409 N LEU A 331	9.146 59.231 117.017 1.00 40.46	N N
ATOM	2410 CA LEU A 331	10.191 59.526 117.961 1.00 44.60	С
MOTA	2411 C LEU A 331	11.053 60.640 117.399 1.00 49.33	C
ATOM	2412 O LEU A 331	11.194 61.701 118.016 1.00 52.75	0
ATOM	2413 CB LEU A 331	11.037 58.283 118.216 1.00 45.31	С
MOTA	2414 CG LEU A 331	12.287 58.486 119.082 1.00 48.54	c
MOTA MOTA	2415 CD1 LEU A 331 2416 CD2 LEU A 331	12.005 59.479 120.190 1.00 55.41 12.735 57.150 119.650 1.00 52.33	C
ATOM	2417 N ARG A 332	12.735 57.150 119.650 1.00 52.33 11.603 60.400 116.211 1.00 53.70	N N
ATOM	2418 CA ARG A 332	12.473 61.361 115.550 1.00 60.63	C
ATOM	2419 C ARG A 332	11.950 62.002 114.262 1.00 60.77	č
ATOM	2420 O ARG A 332	11.004 61.528 113.632 1.00 55.57	0
MOTA	2421 CB ARG A 332	13.826 60.707 115.267 1.00 65.11	С

ATOM	2422	CG	ARG .	A 332	14.770	60.696 116.450	1.00 69.71	С
ATOM	2423	CĐ	ARG .	A 332	16.044	59.921 116.147	1.00 69.46	C
ATOM	2424	NE		A 332	17.140	60.259 117.057	1.00 75.06	Ň
ATOM	2425	CZ		A 332	17.059	60.232 118.384	1.00 81.31	С
ATOM	2426		ARG .		15.927	59.882 118.981	1.00 82.93	N
MOTA	2427	NH2	ARG	A 332	18.112	60.563 119.120	1.00 85.14	N
MOTA	2428	N	GLN .	A 333	12.610	63.092 113.890	1.00 65.78	N
ATOM	2429	CA		A 333	12.296	63.855 112.701	1.00 67.90	
								C
ATOM	2430	C		A 333	13.634	64.097 112.058	1.00 71.18	С
ATOM	2431	0	GLN .	A 333	14.632	63.535 112.479	1.00 68.31	0
ATOM	2432	CB	GLN A	A 333	11.707	65.201 113.085	1.00 72.61	C
ATOM	2433	CG		A 333	10.993	65.880 111.956	1.00 79.18	č
ATOM	2434	CD		A 333	9.729		1.00 86.56	
						65.146 111.594		C
ATOM	2435		GLN		9.004	65.538 110.685	1.00 93.40	0
ATOM	2436	NES	GLN A		9.455	64.067 112.312	1.00 88.10	N
ATOM	2437	N	GLY A	A 334	13.655	64.945 111.042	1.00 79.40	N
ATOM	2438	CA	GLY	A 334	14.909	65.269 110.384	1.00 87.47	С
ATOM	2439	C		A 334	15.453	64.373 109.285	1.00 87.45	č
ATOM	2440	0		A 334	15.146	63.179 109.202	1.00 84.44	٠0
ATOM	2441	N		A 335	16.284	64.982 108.440	1.00 88.86	N
ATOM	2442	CA	ASP A	A 335	16.920	64.309 107.308	1.00 85.39	С
ATOM	2443	С	ASP A	A 335	15.968	63.347 106.612	1.00 77.33	С
ATOM	2444	0		A 335	16.228	62.146 106.544	1.00 74.37	0
ATOM	2445	СB		A 335	18.159	63.544 107.778	1.00 95.54	č
MOTA	2446	CG		A 335	19.155	63.309 106.661	1.00100.21	C
ATOM	2447		ASP A		19.861	64.273 106.289	1.00102.26	0
ATOM	2448	OD2	ASP A	A 335	19.224	62.168 106.150	`1.00104.80	0
ATOM	2449	N		A 336	14.874	63.890 106.088	1.00 69.33	- N
ATOM	2450	ÇA		A 336	13.866	63.090 105.411	1.00 62.56	ĉ
ATOM	2451	c				61.697 105.990		
				A 336	13.805		1.00 56.64	C
ATOM	2452	0		A 336	13.968	60.706 105.285	1.00 56.81	0
ATOM	2453	CB	ASN A	A 336	14.153	63.021 103.920	1.00 64.42	С
ATOM	2454	CG	ASN A	A 336	13.485	64.129 103.172	1.00 75.47	С
ATOM	2455	OD1	ASN A	A 336	12.306	64.400 103.395	1.00 80.59	0
ATOM	2456		ASN A		14.220	64.782 102.277	1.00 82.36	N
MOTA	2457	N		A 337	13.562	61.636 107.291	1.00 45.38	N
ATOM	2458	CA		A 337	13.502	60.373 107.986	1.00 32.52	С
ATOM	2459	С	PHE A	A 337	12.569	60.501 109.172	1.00 31.65	С
ATOM	2460	0	PHE A	A 337	12.612	61.499 109.890	1.00 41.04	0
ATOM	2461	CB	PHE A	A 337	14.901	59.984 108.464	1.00 35.90	
ATOM	2462	CG		A 337	15.625	59.044 107.538	1.00 41.00	č
								Č
MOTA	2463			A 337	16.977	59.219 107.268	1.00 43.16	Ç
ATOM	2464			A 337	14.966	57.962 106.962	1.00 43.25	000000000000000000000000000000000000000
ATOM	2465	CE1	PHE A	A 337	17.666	58.331 106.440	1.00 46.01	С
ATOM	2466	CE2	PHE A	A 337	15.644	57.072 106.136	1.00 45.63	С
ATOM	2467	CZ		A 337	16.999	57.257 105.874	1.00 45.74	č
ATOM	2468	N	GLU A		11.716	59.502 109.367	1.00 26.29	N
								14
ATOM	2469	CA	GLU A		10.786	59.502 110.481	1.00 29.69	C C
ATOM	2470	С	GLU A		10.962	58.218 111.252	1.00 23.34	C
ATOM	2471	0	GLU A	A 338	10.997	57.150 110.656	1.00 27.49	0
ATOM	2472	CB	GLU A	A 338	9.343	59.581 109.980	1.00 34.11	С
ATOM	2473	CG	GLU A		8.840	60.986 109.680	1.00 38.07	Ċ
ATOM	2474	CD	GLU A		7.316	61.070 109.589	1.00 43.85	c c
ATOM	2475		GLU A		6.625	60.777 110.597		ŏ
ATOM	2476		GLU A		6.809	61.436 108.508	1.00 47.89	0
ATOM	2477	N	VAL A	A 339	11.067	58.304 112.572	1.00 12.61	N
MOTA	2478	CA	VAL A	A 339	11.209	57.093 113.363	1.00 12.26	С
ATOM	2479	С	VAL A	A 339	10.028	56.913 114.297	1.00 9.82	С
ATOM	2480	o	VAL A		9.867	57.674 115.257	1.00 17.52	0
ATOM	2481	CB	VAL A		12.488 12.474	57.113 114.214 55.945 115.191	1.00 16.72	C
MOTA	2482		VAL A				1.00 18.37	Č
ATOM	2483		VAL A		13.712	57.046 113.318	1.00 24.35	C
MOTA	2484	N	TRP A		9.209	55.902 114.035	1.00 9.60	N
MOTA	2485	CA	TRP A	A 340	8.056	55.644 114.889	1.00 17.16	С
ATOM	2486	С	TRP A		8.305	54.434 115.790	1.00 17.17	С
ATOM	2487	ŏ	TRP A		9.208	53.638 115.532	1.00 16.55	ō
ATOM	2488		TRP A		6.816	55.416 114.029	1.00 25.15	č
		CB						ž
ATOM	2489	CG	TRP A		6.367	56.646 113.324	1.00 32.90	c
ATOM	2490		TRP A		7.086	57.387 112.440	1.00 33.98	C
ATOM	2491		TRP A		5.110	57.309 113.473	1.00 41.04	С
ATOM	2492		TRP A		6.358	58.475 112.026	1.00 42.03	N
ATOM	2493		TRP A		5.140	58.452 112.644	1.00 46.80	Ċ
ATOM	2494		TRP A		3.961	57.051 114.226	1.00 47.74	č
								C C
ATOM	2495		TRP A		4.070	59.338 112.550	1.00 56.89	Č
ATOM	2496		TRP A		2.896	57.933 114.134	1.00 47.15	С
ATOM	2497	CH2	TRP A		2.958	59.064 113.300	1.00 55.77	Ċ
ATOM	2498	N	GLU A	A 341	7.513	54.304 116.852	1.00 16.97	N
		CA		341	7.650	53.182 117.784	1.00 17.90	C
ATOM	2499							
				341	6.443	53.057 118.719	1.00 15 85	C
ATOM	2500	С	GLU A		6.443	53.057 118.719 54.049 119.150	1.00 15.85	С
MOTA MOTA	2500 2501	С 0 .	GLU A	341	5.845	54.049 119.150	1.00 17.73	C 0
ATOM	2500	С	GLU A	341				С

ATOM	2503	CG	GLU		341	8.721	EA 124	110 002	1 00	36.58	С
ATOM	2504							119.882			č
		CD	GLU			10.016		120.644		40.66	
ATOM	2505		GLU			10.732		120.940		43.84	0
MOTA	2506		GLU			10.323		120.963		45.95	0
ATOM	2507	N			342	6.099		119.028		20.21	N
ATOM	2508	CA			342	4.985		119.908		27.65	c
ATOM	2509	C			342	5.438		120.918		31.87	C
MOTA	2510	0			342	6.049		120.545		42.57	0
MOTA	2511	CB			342	3.800		119.105		25.33	С
ATOM	2512	CG	ARG	Α	342	2.701	50.375	119.985		25.09	c c
MOTA	2513	CD	ARG	Α	342	1.752	49.448	119.237	1.00	24.25	С
MOTA	2514	NE	ARG	Α	342	0.577	49.103	120.044	1.00	26.47	N
MOTA	2515	CZ	ARG	Α	342	-0.452	48.389	119.598	1.00	30.27	С
MOTA	2516	NH1	ARG	Α	342	-0.440	47.942	118.353	1.00	31.99	N
MOTA	2517	NH2	ARG	Α	342	-1.506		120.371	1.00	34.96	N
MOTA	2518	N	PRO	Α	343	5.181		122.211	1.00	26.00	N
ATOM	2519	CA			343	5.611		123.148		21.89	С
ATOM	2520	C			343	4.547		123.068	1.00	27.99	Ċ
MOTA	2521	0			343	3.358		122.905		26.98	0
ATOM	2522	СB			343	5.603		124.474	1.00	8.64	Ċ
ATOM	2523	ÇG			343	4.455		124.316		11.85	c c
ATOM	2524	CD			343	4.640		122.923		20.11	č
ATOM	2525	N	LEU			4.970		123.156		34.97	N
ATOM	2526	CA	LEU			4.040		123.085		39.22	ċ
ATOM	2527	C			344	3.918		124.477		46.77	č
	2528				344	4.025		125.478		51.96	C
ATOM ATOM		0	LEU			4.570		122.098		30.94	Š
ATOM	2529	CB			344	4.570 5.077		122.098		35.48	0000
ATOM	2530	CG								43.68	Č
ATOM	2531		LEU			5.746		119.914			Č
ATOM	2532		LEU			3.902		120.172		44.42	
ATOM	2533	N			345	3.690		124.535		51.33	N
ATOM	2534	CA			345	3.577		125.805		57.81	Č
ATOM	2535	C			345	4.868		125.989		57.31	с с 0
ATOM	2536	0			345	5.555		125.015		54.00	
ATOM	2537	CB			345	2.399		125.776		65.41	C
MOTA	2538	OG	-		345	1.220		125.356		72.59	0
ATOM	2539	N			346	5.203		127.233		58.68	N
MOTA	2540	CA			346	6.409		127.507		63.75	C
MOTA	2541	С	GLY			7.730		127.180		66.32	С
MOTA	2542	0	GLY			8.646		126.694		68.08	0
MOTA	2543	N	LEU	Α	347	7.831		127.446		67.45	N
ATOM	2544	CA	LEU			9.061		127.194		70.86	С
MOTA	2545	С	LEU	Α	347	9.484	44.433	125.727	1.00	71.91	С
MOTA	2546	0	LEU	Α	347	10.639	44.721	125.398	1.00	78.43	0
ATOM	2547	CB	LEU	Α	347	10.196	43.870	128.049	1.00	77.11	С
ATOM	2548	CG	LEU	Α	347	9.956	43.870	129.559	1.00	85.78	Ċ
ATOM	2549	CD1	LEU	Α	347	11.102	43.153	130.256	1.00	94.76	C
ATOM	2550	CD2	LEU	Α	347	9.829	45.302	130.055	1.00	88.27	С
ATOM	2551	N			348	8.543	44.097	124.853	1.00	66.88	N
MOTA	2552	CA	ALA	Α	348	8.804	44.058	123.427	1.00	55.04	С
ATOM	2553	Ċ			348	8.354	45.368	122.809	1.00	41.31	С
ATOM	2554	0			348	7.332	45.923	123.196	1.00	35.51	0
ATOM	2555	CB	ALA	Α	348	8.062	42.893	122.797	1.00	67.28	С
MOTA	2556	N			349	9.124		121.850		32.83	N
ATOM	2557	CA	TRP			8.785		121.202		27.38	С
АТОМ	2558	c c			349	8.779		119.687		28.15	Ċ
ATOM	2559	ō			349	9.598		119.095			ō
ATOM	2560	ČВ			349	9.769		121.622		27.05	č
ATOM	2561	CG	TRP			9.634		123.031		26.81	č
ATOM	2562		TRP			9.686		124.145		38.79	č
ATOM	2563		TRP			9.489		123.505		19.14	č
ATOM	2564		TRP			9.586		125.285		34.04	N
ATOM	2565		TRP			9.464		124.920		28.66	Ċ
	2566		TRP			9.380		122.875		11.37	č
ATOM						9.335		125.711		36.09	č
ATOM	2567		TRP								č
ATOM	2568		TRP			9.254		123.649 125.057		29.51 39.76	c
ATOM	2569		TRP			9.232					N
ATOM	2570	N			350	7.847		119.064 117.612		24.57	C
ATOM	2571	CA			350	7.735		117.612		24.86 28.08	c
MOTA	2572	C			350	8.318					
ATOM	2573	0			350	8.108		117.814		35.08	O C
ATOM	2574	CB			350	6.273		117.203		24.91 28.62	
ATOM	2575	N	VAL			9.049		116.042			N
ATOM	2576	CA	VAL			9.657		115.537		29.07	C C
ATOM	2577	c	VAL			9.529		114.028		32.11	
MOTA	2578	0	VAL			9.734		113.253		31.37	0
ATOM	2579	CB	VAL			11.156		115.887		30.43	C C
ATOM	2580		VAL			11.696		115.487		26.13	C
MOTA	2581		VAL			11.367		117.365		22.49	
MOTA	2582	N			352	9.217		113.617		28.58	N
ATOM	2583	CA	ALA	Α	352	9.055	32.000	112.199	1.00	29.67	С

MOTA	2584	С	ALA	Α	352	10.16	59	52.966	111.681	1.00	23.48	С
MOTA	2585	0	ALA			10.73			112.420		15.30	0
MOTA	2586	CB	ALA			7.68			111.949		39.82	C
MOTA	2587	N	MET			10.47			110.399		21.96	N
MOTA	2588	CA	MET			11.51			109.744		24.60	
MOTA	2589	Ċ	MET			11.03			108.336		24.95	с с о
ATOM	2590	ō	MET			11.11			107.379		20.54	ō
ATOM	2591	СВ	MET			12.79			109.684		33.80	č
ATOM	2592	CG	MET			13.97			110.422		43.10	С С С И
ATOM	2593	SD	MET			14.81			111.503		47.21	č
	2594	CE	MET			15.47						Š
MOTA									110.336		53.94	N
MOTA	2595	N	ILE			10.53			108.233		22.56	14
MOTA	2596	CA	ILE			10.00			106.985		19.74	c c 0
MOTA	2597	C	ILE			11.00			106.278		22.46	
MOTA	2598	0	ILE			11.54			106.878		28.82	0
MOTA	2599	CB	ILE			8.77			107.235		13.71	c c c
MOTA	2600	CG1				7.88			108.297	1.00	5.73	Ċ
MOTA	2601		ILE			8.00			105.956		19.87	Ü
MOTA	2602	CD1				6.90			108.893		21.25	C
MOTA	2603	N	ASN			11.24			104.998		23.27	N
ATOM	2604	CA	ASN			12.15			104.220		34.18	с с 0
MOTA	2605	С	ASN			11.28			103.441		36.71	C
MOTA	2606	0	ASN			10.78			102.373		32.22	0
MOTA	2607	CB	ASN			13.00			103.272		39.85	C
MOTA	2608	CG	ASN			13.83			102.286		36.79	С
MOTA	2609	OD1	ASN	Α	355	14.32			102.616	1.00	35.5 7	0
MOTA	2610	ND2	ASN	Α	355	13.99	92	56.659	101.073		25.45	N
MOTA	2611	N	ARG	Α	356	11.09	97	59.377	104.000	1.00	35.71	N
MOTA	2612	CA	ARG	Α	356	10.28	39	60.385	103.346	1.00	27.94	С
ATOM	2613	С	ARG			10.96	59	61.058	102.167	1.00	33.57	С
MOTA	2614	0	ARG	Α	356	10.55	56	62.146	101.772	1.00	39.39	0
MOTA	2615	СВ	ARG	Α	356	9.85	54	61.444	104.360	1.00	15.59	С
ATOM	2616	CG	ARG			8.78			105.318	1.00	14.97	С
MOTA	2617	CD	ARG			7.55			104.568		31.33	С
ATOM	2618	NE	ARG			6.68			104.033		48.53	N
MOTA	2619	CZ	ARG			6.01			104.781		50.62	С
MOTA	2620		ARG			6.11			106.102		48.45	N
ATOM	2621		ARG			5.23			104.211		48.50	N
MOTA	2622	N	GLN			11.99			101.593		35.04	N
MOTA	2623	CA	GLN			12.69			100.456		33.28	Ċ
	2624	C	GLN			12.19		60.548	99.090		31.79	č
ATOM		Ö	GLN			12.69		59.568	98.540		32.87	ō
MOTA	2625					14.18			100.585		36.36	č
ATOM	2626	CB	GLN						99.464		56.02	c
ATOM	2627	CG	GLN			14.97		61.407				Ċ
ATOM	2628	CD	GLN			16.32		61.930	99.914		61.03	ō
MOTA	2629		GLN			16.39			100.755		63.53	
ATOM	2630		GLN			17.39		61.379	99.359		65.54	N
ATOM	2631	N	GLU			11.21		61.261	98.552		31.67	N
ATOM	2632	CA	GLU			10.57		60.942	97.275		37.21	c
ATOM	2633	С	GLU			11.45		60.598	96.072		35.86	C
ATOM	2634	0	GLU			10.99		59.943	95.132		36.71	0
ATOM	2635	CB	GLU			9.65		62.102	96.879		46.42	C
MOTA	2636	CG	GLU			8.61		62.496	97.923		49.92	c c
MOTA	2637	CD	GLU	A	358	7.40		61.587	97.919		51.00	С
ATOM	2638	OE1	GLU	Α	358	6.92		61.240	96.817		54.14	0
ATOM	2639	OE2	GLU	Α	358	6.92	22	61.233	99.012		56.01	0
ATOM	2640	N	ILE	Α	359	12.71	15	61.034	96.090		37.36	N
ATOM	2641	CA	ILE	Α	359	13.61	15	60.785	94.961	1.00	38.55	С
MOTA	2642	С	ILE	Α	359	14.91	16	60.060	95.320		33.78	С
ATOM	2643	0	ILE	Α	359	15.29	94	59.970	96.485	1.00	26.01	0
ATOM	2644	CB	ILE	Α	359	13.94	48	62.120	94.259	1.00	48.55	С
ATOM	2645	CG1	ILE	Α	359	14.69	98	61.866	92.951	1.00	50.62	С
ATOM	2646	CG2	ILE	Α	359	14.74	41	63.018	95.206	1.00	43.41	C
ATOM	2647	CD1	ILE	Α	359	14.97	75	63.126	92.160	1.00	63.56	С
MOTA	2648	N	GLY			15.59		59.537	94.306	1.00	35.67	N
ATOM	2649	CA	GLY			16.83		58.821	94.538		49.08	С
ATOM	2650	C.	GLY			16.65		57.318	94.690		53.38	Ċ
MOTA	2651	ŏ	GLY			15.93		56.679	93.918		55.36	ō
ATOM	2652	N	GLY			17.30		56.749	95.692		50.24	N
ATOM	2653	CA	GLY			17.20		55.322	95.919		49.48	Ċ
ATOM	2654	c	GLY			17.06		55.017	97.395		51.09	č
ATOM	2655	ŏ	GLY			16.63		55.889	98.152		59.46	ŏ
ATOM	2656	N			362	17.41	-	53.796	97.842		49.93	N
ATOM	2657	CA			362	17.31		53.405	99.246		51.63	č
ATOM	2658	c			362	18.45			100.026		54.61	č
MOTA	2659	ŏ			362	19.61		53.748	99.725		61.64	ŏ
ATOM	2660	СВ			362	17.42		51.891	99.177		46.25	č
ATOM	2661	CG			362	18.44		51.704	98.121		48.61	č
ATOM	2662	CD			362	18.07		52.706	97.054		50.22	č
MOTA	2663	N			363	18.12			101.010		51.09	N
ATOM	2664	CA			363	19.13			101.822		47.56	c c
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MOTA	2665	С	ARG	Α	363	19.375	54 587	103.018	1.00	46.90	С
MOTA	2666	ō	ARG			18.713		103.150		47.57	Ō
MOTA	2667	СВ	ARG			18.664		102.217	- :	51.44	č
MOTA	2668		ARG			18.232				44.14	č
		CG						100.992			Č
ATOM	2669	CD	ARG			18.212		101.160		50.08	
MOTA	2670	NE	ARG			17.069		101.936		60.37	N
MOTA	2671	CZ	ARG			17.117		103.238		67.25	C
MOTA	2672		ARG			18.257		103.895		62.40	N
ATOM	2673	NH2	ARG	A	363	16.035	60.243	103.881		78.35	N
MOTA	2674	N	SER	A	364	20.322	54.944	103.874	1.00	47.63	N
MOTA	2675	CA	SER	A	364	20.572	54.123	105.046	1.00	52.53	С
MOTA	2676	С	SER	A	364	20.457	54.967	106.297	1.00	54.18	С
ATOM	2677	0	SER			20.946		106.341		60.34	0
ATOM	2678	CB	SER			21.958		104.976	1.00	59.39	С
MOTA	2679	OG	SER			22.984		104.893		72.85	0
ATOM	2680	N	TYR			19.780		107.303		55.27	N
MOTA	2681	CA	TYR			19.621		108.557		57.93	C
ATOM	2682	Ç.	TYR			20.214		109.674		57.07	Ċ
ATOM	2683	ŏ	TYR			20.069		109.685		56.96	ō
	2684	ČВ	TYR			18.147		108.832		57.81	č
ATOM		CG	TYR			17.963		109.937		64.43	č
ATOM	2685										0000
ATOM	2686		TYR			18.372		109.769		72.40	
ATOM	2687		TYR			17.428		111.179		65.59	Č
MOTA	2688	CEI	TYR			18.257		110.814		77.79	Č
ATOM	2689		TYR			17.308		112.233		62.72	Č
MOTA	2690	CZ	TYR			17.725		112.047		69.04	Ċ
MOTA	2691	OH	TYR			17.618		113.080		60.28	0
MOTA	2692	N	THR			20.887		110.606		54.01	N
MOTA	2693	CA	THR			21.532		111.729		50.62	Č
MOTA	2694	С	THR			21.223		113.036		51.78	Ċ
MOTA	2695	0	THR	Α	366	21.341	56.236	113.105	1.00	61.83	0
MOTA	2696	CB	THR	A	366	23.050	54.296	111.539	1.00	47.56	С
ATOM	2697	OG1	THR	Α	366	23.489	55.645	111.339	1.00	54.98	0
ATOM	2698	CG2	THR	Α	366	23.442	53.480	110.331	1.00	37.27	Ċ
ATOM	2699	N	ILE	Α	367	20.828	54.275	114.070	1.00	44.35	N
ATOM	2700	CA	ILE			20.538	54.882	115.377	1.00	43.01	C
ATOM	2701	C	ILE	Α	367	21.113		116.562	1.00	44.48	С
ATOM	2702	ō	ILE			21.527		116.437		51.46	0
ATOM	2703	CB	ILE			19.031		115.657		46.14	С
ATOM	2704		ILE			18.284		115.204		46.40	C
ATOM	2705		ILE			18.515		115.022		55.17	č
ATOM	2706		ILE			18.671		115.960		50.08	č
ATOM	2707	N	ALA			21.120		117.716		46.92	N
ATOM	2708	CA	ALA			21.628		118.937		53.37	ċ
	2709		ALA			20.604		119.552		52.95	č
ATOM	2710	Ç	ALA			19.672		120.233		55.58	ő
ATOM		0						119.932		64.28	č
ATOM	2711	CB	ALA			21.999				46.01	N
ATOM	2712	N	VAL			20.790		119.283			
ATOM	2713	CA	VAL			19.939		119.813		36.78	c
ATOM	2714	Ç	VAL			19.413		121.187		31.16	c
MOTA	2715	0	VAL			18.230		121.502		23.65	0
MOTA	2716	CB	VAL			20.748		119.955		46.22	c c
ATOM	2717		VAL			19.984		120.738		49.54	Č
MOTA	2718		VAL			21.109		118.585		57.99	
ATOM	2719	N	ALA			20.312		122.005		37.15	N
MOTA	2720	CA	ALA	A	370	19.975		123.356		46.82	C
MOTA	2721	С	ALA	A	370	18.860		123.383		49.03	C
MOTA	2722	0	ALA	Α	370	17.741		123.794		54.27	0
ATOM	2723	CB	ALA			21.219		124.044		53.44	C
MOTA	2724	N	SER	Α	371	19.171		122.932		46.02	Ŋ
ATOM	2725	CA	SER	Α	371	18.196		122.930		49.13	С
MOTA	2726	С	SER	Α	371	17.016	55.266	122.018		46.74	С
MOTA	2727	0	SER	Α	371	16.569	56.136	121.285	1.00	51.75	0
ATOM	2728	CB	SER	Α	371	18.861	56.882	122.515	1.00	49.25	С
ATOM	2729	OG	SER	Α	371	19.222	56.878	121.148	1.00	46.67	. 0
ATOM	2730	N	LEU			16.511	54.038	122.072	1.00	43.25	N
MOTA	2731	CA	LEU			15.377		121.242	1.00	39.52	C
MOTA	2732	Ċ	LEU			14.135	53.415	122.092	1.00	41.63	С
ATOM	2733	0	LEU			13.319	54.321	122.285	1.00	43.63	0
MOTA	2734	СВ	LEU			15.698		120.440		38.36	С
MOTA	2735	CG	LEU			14.636		119.403		39.85	С
ATOM	2736		LEU			14.260		118.536		35.69	С
MOTA	2737		LEU			15.169		118.528		33.08	С
MOTA	2738	N	GLY			13.995		122.596		41.36	N
MOTA	2739	CA	GLY			12.847		123.423		42.44	С
ATOM	2740	c	GLY			12.892		124.718		43.08	Ċ
ATOM	2741	ō	GLY			12.973		125.792		41.04	ō
MOTA	2742	N	LYS			12.854		124.601		42.62	N
ATOM	2743	CA	LYS			12.905		125.745		40.40	C
MOTA	2744	Ċ	LYS			14.066		126.642		39.72	c
MOTA	2745	ō	LYS			14.093	54.833	127.808		35.72	0

ATOM ATOM	2746 2747	CB CG	LYS LYS		374 374	11.596 10.897		126.528 126.618		43.36 55.37		c c
ATOM	2748	CD	LYS		374	9.446		127.032		70.29		С
MOTA	2749	CE	LYS		374	8.697		126.997		76.90		C
ATOM	2750	NZ	LYS GLY			8.656		125.628		85.28		N
MOTA MOTA	2751 2752	N CA	GLY		375	15.026 16.187		126.085 126.843		46.09 45.98		N C
ATOM	2753	C	GLY			16.051		127.397		44.25		Č
ATOM	2754	ō	GLY			17.045		127.567		42.54		ŏ
MOTA	2755	N	VAL			14.815		127.670		44.63		N
ATOM	2756	CA	VAL		376	14.521		128.213		48.90		C
MOTA MOTA	2757 2758	C O	VAL		376 376	14.846 15.870		127.261 127.426		51.39 60.38		C
ATOM	2759	СB	VAL			13.044		128.596	1.00			č
MOTA	2760		VAL		376	12.742		129.011		56.12		C
MOTA	2761	CG2	VAL			12.723		129.715		60.19		С
MOTA	2762	N	ALA		377	13.965		126.289		48.99		N
MOTA	2763 2764	CA C	ALA ALA		377	14.176 15.583		125.322 124.777		50.51 50.00		C
ATOM ATOM	2765	ŏ	ALA			15.931		124.777		43.03		ŏ
ATOM	2766	ČВ	ALA		377	13.170		124.202		55.85		č
MOTA	2767	N	CYS	Α	378	16.381		125.012		54.41		N
MOTA	2768	CA	CYS		378	17.788		124.606		63.17		C
MOTA	2769	C	CYS			18.736		125.791		64.43		C
ATOM ATOM	2770 2771	O CB	CYS CYS		378	19.948 18.160		125.618 123.647		68.38 63.34		č
MOTA	2772	SG	CYS			17.553		121.960		65.15		Š
MOTA	2773	N	ASN			18.193		126.991		61.33		N
ATOM	2774	CA	ASN		379	19.024		128.192	1.00	63.54		C
ATOM	2775	Ç	ASN		379	18.918		128.858		65.33		C
MOTA MOTA	2776 2777	O CB	ASN ASN		379 379	17.886 18.571		129.434 129.172	1.00	62.68 71.26		c c
ATOM	2778	CG	ASN			19.666		130.157	1.00	81.14		Č
ATOM	2779	OD1			379	20.752		129.749	1.00	80.80		Õ
ATOM	2780	ND2	ASN		379	19.393	48.332	131.453	1.00	90.99		N
ATOM	2781	N	PRO		380	19.978		128.752		65.49		N
ATOM	2782	CA	PRO		380	21.210		128.042	1.00	68.72		
ATOM ATOM	2783 2784	C 0	PRO PRO		380 380	21.125 21.714		126.655 125.680	1.00	71.25 74.26		ŏ
ATOM	2785	СВ	PRO			22.266		128.920		63.37		č
ATOM	2786	ĊĠ	PRO		380	21.606		129.236	1.00	58.13		С
MOTA	2787	CD	PRO	Α	380	20.133		129.464		65.64		С
ATOM	2788	N	ALA			20.381		126.590	1.00	69.39	_	N
ATOM	2789 2790	CA	ALA			20.201 18.875		125.348 124.656	1.00	66.00 59.33		C
ATOM ATOM	2791	С 0	ALA ALA		381	17.837		125.292		53.52		ŏ
ATOM	2792	СВ	ALA			20.417		125.572	1.00	75.68		č
MOTA	2793	N	CYS			18.952		123.331		57.68		N
MOTA	2794	CA	CYS			17.845		122.410	1.00			C
ATOM	2795 2796	C 0	CYS		382	17.858 18.923		121.272 120.747	1.00	61.79 58.23		C
MOTA MOTA	2797	СВ	CYS		382 382	18.022		121.775		61.16		č
ATOM	2798	SG	CYS		382	16.683		122.102				S
ATOM	2799	N	PHE		383	16.704	41.515	120.896	1.00	62.44		N
ATOM	2800	CA	PHE		383	16.664		119.745		65.46		C
ATOM	2801 2802	C 0	PHE		383	15.710		118.740 118.950		63.82 61.15		C
ATOM ATOM	2803	СВ	PHE		383 383	14.504 16.210		120.105		68.56		č
ATOM	2804	CG	PHE			16.467		119.002		76.53		č
ATOM	2805		PHE			17.697		118.339		74.30		C
MOTA	2806		PHE			15.493		118.625		85.67		C
ATOM ATOM	2807 2808		PHE			17.948 15.741		117.322 117.600		78.20 88.13		c
ATOM	2809	CZ	PHE			16.967		116.956		85.05		Ċ
ATOM	2810	N	ILE			16.270		117.641		61.06		N
MOTA	2811	CA	ILE			15.488		116.613		55.74		C
MOTA	2812	C	ILE			15.298		115.371		49.69		C
ATOM ATOM	2813 2814	O CB	ILE			16.260 16.169		114.751 116.179		52.06 60.45		O C
ATOM	2815		ILE			16.669		117.408		57.21		С
ATOM	2816		ILE			15.218	44.509	115.343	1.00	59.27		С
MOTA	2817	CD1	ILE	Α	384	17.616		117.089		53.54		С
ATOM	2818	N	THR			14.054		114.993		42.27		N
ATOM ATOM	2819 2820	CA C	THR THR			13.802 13.050		113.809 112.841		45.98 38.79		C
ATOM	2821	Ö	THR			11.914		113.113		41.54		ŏ
MOTA	2822	ČВ	THR			12.955	39.324	114.165	1.00	48.95		C
MOTA	2823	OG1	THR	Α	385	11.600		114.386		60.41		0
MOTA	2824		THR			13.475		115.460 111.731		52.69		C N
MOTA MOTA	2825 2826	N CA	GLN GLN			13.693 13.023		110.781		34.79 35.28		Č
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MOTA	2827	С	GLN A	386	11.727	41.981 110.476	1.00 39.22	С
MOTA	2828	0	GLN A		11.722	40.810 110.138	1.00 40.71	0
MOTA	2829	CB	GLN A	386	13.821	42.866 109.499	1.00 34.63	С
MOTA	2830	CG	GLN A	386	13.158	43.880 108.566	1.00 34.28	С
MOTA	2831	CD	GLN A		14.026	44.284 107.386	1.00 46.71	С
MOTA	2832	OE1	GLN A	386	13.732	43.941 106.249	1.00 48.69	0
MOTA	2833	NE2	GLN A	386	15.093	45.029 107.653	1.00 49.83	N
MOTA	2834	N	LEU A		10.616	42.682 110.641	1.00 43.59	N
MOTA	2835	CA	LEU A	387	9.322	42.060 110.402	1.00 39.83	С
ATOM	2836	С	LEU A	387	8.754	42.574 109.107	1.00 38.85	С
MOTA	2837	0	LEU A	1 38/	7.693	42.126 108.675	1.00 34.66	0
ATOM	2838	CB	LEU A	387	8.361	42.375 111.552	1.00 33.47	С
ATOM	2839	CG	LEU A		7.307	41.314 111.857	1.00 41.41	С
								č
MOTA	2840	CDI	LEU A	1 38/	7.998	39.995 112.168	1.00 43.33	C
ATOM	2841	CD2	LEU A	387	6.451	41.754 113.042	1.00 41.38	С
ATOM	2842	N	LEU A		9.478	43.509 108.492	1.00 40.99	N
ATOM	2843	CA	LEU A	1 388	9.072	44.136 107.232	1.00 35.75	С
ATOM	2844	С	LEU A	388	10.209	45.000 106.694	1.00 35.19	C
	2845	ō	LEU A		10.972	45.589 107.447	1.00 36.99	0
ATOM								ž
MOTA	2846	ÇВ	LEU A	388	7.828	44.988 107.452	1.00 33.28	С
ATOM	2847	CG	LEU A	388	6.511	44.667 106.742	1.00 25.74	С
ATOM	2848		LEU A		6.390	43.189 106.470	1.00 38.31	С
								č
ATOM	2849	CD2	LEU A	1 388	5.361	45.132 107.613	1.00 8.19	С
ATOM	2850	N	PRO A	389	10.282	45.150 105.374	1.00 28.44	N
ATOM	2851	CA	PRO A		9.391	44.522 104.403	1.00 30.70	С
ATOM	2852	С	PRO A	1 389	9.762	43.081 104.051	1.00 44.42	С
MOTA	2853	0	PRO A	389	9.282	42.550 103.049	1.00 50.46	0
ATOM	2854	CB	PRO A		9.529	45.449 103.206	1.00 26.67	С
								č
ATOM ·	2855	CG	PRO A	1 389	11.014	45.718 103.228	1.00 16.13	С
MOTA	2856	CD	PRO A	389	11.281	45.990 104.695	1.00 24.47	С
MOTA	2857		VAL A		10.583	42.428 104.876	1.00 47.57	N
		N						
ATOM	2858	CA	VAL A		11.014	41.060 104.559	1.00 49.10	С
ATOM	2859	С	VAL A	390	11.239	40.095 105.724	1.00 51.10	Č
	2860	ō	VAL A		11.924	39.078 105.595	1.00 56.56	0
MOTA								~
ATOM	2861	CB	VAL A	390	12.295	41.094 103.725	1.00 50.36	С
ATOM	2862	CG1	VAL A	390	12.050	41.882 102.446	1.00 54.46	С
	2863		VAL A		13.413	41.733 104.509	1.00 53.00	С
ATOM								
MOTA	2864	N	LYS A	391	10.669	40.409 106.869	1.00 53.92	N
MOTA	2865	CA	LYS A	391	10.813	39.520 108.008	1.00 60.85	С
			LYS A		12.118	38.709 107.999	1.00 61.60	С
MOTA	2866	Ċ						
MOTA	2867	0	LYS A	391	12.127	37.511 107.688	1.00 60.62	0
ATOM	2868	CB	LYS A	391	9.621	38.557 108.077	1.00 70.30	c c
						37.752 109.393	1.00 73.84	Č
MOTA	2869	CG	LYS A		9.581			_
MOTA	2870	CD	LYS A	391	8.354	36.840 109.609	1.00 82.47	С
MOTA	2871	CE	LYS A	391	8.162	36.436 111.105	1.00 78.17	Ċ
								Ñ
MOTA	2872	NZ	LYS A		8.786	35.089 111.446	1.00 72.08	
MOTA	2873	N	ARG A	392	13.211	39.377 108.350	1.00 65.79	. N
ATOM	2874	CA	ARG A	392	14.525	38.755 108.408	1.00 66.82	С
							1.00 71.20	Ċ
MOTA	2875	C	ARG A		14.923	38.682 109.880		
ATOM	2876	0	ARG A	392	14.436	39.459 110.699	1.00 71.14	0
ATOM	2877	CB	ARG A	392	15.542	39.599 107.632	1.00 62.17	С
						38.800 106.997	1.00 67.14	Ċ
ATOM	2878	CG	ARG A		16.666			
MOTA	2879	CD	ARG A	392	17.945	39.615 106.871	1.00 73.94	С
ATOM	2880	NE	ARG A	392	17.705	40.942 106.318	1.00 76.16	N
					17.244	41.171 105.095	1.00 78.98	C
ATOM	2881	ÇZ	ARG A					
ATOM	2882	NH1	ARG A	392	16.970	40.157 104.285	1.00 83.20	N
ATOM	2883	NH2	ARG A	392	17.056	42.416 104.678	1.00 79.61	N
ATOM	2884	N		393	15.826	37.763 110.204	1.00 74.34	N
								c c
MOTA	2885	CA		393	16.272	37.567 111.581	1.00 74.32	_
MOTA	2886	С	LYS A	393	17.596	38.236 111.894	1.00 71.12	C
ATOM	2887	0		393	18.653	37.631 111.738	1.00 72.31	0
					16.400	36.075 111.864	1.00 76.52	č
ATOM	2888	CB		393			1.00 70.32	ž
ATOM	2889	CG	LYS /	393	15.440	35.517 112.894	1.00 81.26	Ç
ATOM	2890	CD	LYS A	393	15.657	34.016 113.031	1.00 84.21	С
ATOM	2891	CE	LYS		14.564	33.355 113.854	1.00 84.12	Ċ
ATOM	2892	NZ	LYS /		14.722	31.869 113.887	1.00 82.65	N
ATOM	2893	N	LEU A	394	17.548	39.482 112.344	1.00 64.44	N
ATOM	2894	ÇA	LEU A		18.777	40.190 112.666	1.00 65.62	C
								č
ATOM	2895	С		394	19.271	39.597 113.969	1.00 71.87	Č
ATOM	2896	0	LEU A	394	18.498	38.966 114.682	1.00 74.80	0
ATOM	2897	CB		394	18.479	41.673 112.818	1.00 61.06	С
								č
MOTA	2898	CG		394	17.758	42.207 111.579	1.00 56.94	تِ
ATOM	2899	CD1	LEU A	394	17.339	43.640 111.798	1.00 57.94	С
ATOM	2900		LEU A		18.673	42.087 110.372	1.00 63.83	c c c
					20.548	39.782 114.286	1.00 76.02	N
ATOM	2901	N	GLY A					
ATOM	2902	CA	GLY A	395	21.085	39.223 115.522	1.00 73.17	Ç
MOTA	2903	С	GLY A	395	20.680	39.890 116.826	1.00 65.34	С
ATOM	2904	ō		395	19.613	40.494 116.925	1.00 57.67	Ó
								N
ATOM	2905	N		4 396	21.540	39.776 117.835	1.00 63.13	
MOTA	2906	CA	PHE A	A 396	21.286	40.392 119.139	1.00 62.22	Ç
ATOM	2907	C		A 396	21.911	41.780 119.160	1.00 62.91	С
		-						

ATOM	2908	0	PHE A	396	22.905	42.023 118.480	1.00 68.68	0
ATOM	2909	СВ			21.903	39.557 120.259	1.00 61.44	c c
MOTA	2910	CG	PHE A	396	21.194	38.263 120.515	1.00 57.15	C
ATOM	2911	CD1	PHE A	396	20.789	37.923 121.806	1.00 54.82	c c
MOTA	2912	CD2	PHE A	396	20.915	37.388 119.472	1.00 59.67	С
ATOM	2913		PHE A	396	20.107	36.725 122.052	1.00 52.15	Č
ATOM	2914		PHE A		20.237			ž
						36.190 119.701	1.00 61.55	C
ATOM	2915	CZ	PHE A		19.830	35.856 120.991	1.00 58.19	С
ATOM	2916	N	TYR A	397	21.338	42.689 119.942	1.00 56.31	N
ATOM	2917	CA	TYR A	397	21.862	44.049 120.035	1.00 51.12	С
ATOM	2918	С	TYR A	397	22.132	44.491 121.470	1.00 50.69	С
ATOM	2919	ŏ	TYR A		21.259	44.430 122.331	1.00 51.70	ŏ
								ŏ
MOTA	2920	СВ	TYR A		20.903	45.036 119.355	1.00 51.25	Ç
MOTA	2921	CG	TYR A	397	20.898	44.941 117.840	1.00 47.50	С
ATOM	2922	CD1	TYR A	397	20.283	43.874 117.183	1.00 44.72	0 0 0 0
ATOM	2923	CD2	TYR A	397	21.560	45.891 117.067	1.00 49.23	С
ATOM	2924	CE1	TYR A		20.336	43.757 115.801	1.00 47.21	č
					21.620	45.782 115.686	1.00 47.77	č
ATOM	2925		TYR A					_
MOTA	2926	ÇZ	TYR A		21.011	44.715 115.056	1.00 49.51	Ç
MOTA	2927	ОН	TYR A	397	21.108	44.600 113.682	1.00 48.37	0
MOTA	2928	N	GLU A	398	23.362	44.923 121.719	1.00 48.51	N
ATOM	2929	CA	GLU A	398	23.760	45.391 123.037	1.00 51.18	С
ATOM	2930	C	GLU A		23.351	46.838 123.202	1.00 49.09	Ċ
							1.00 45.06	ŏ
ATOM	2931	0	GLU A		23.194	47.559 122.216		ŏ
MOTA	2932	CB	GLU A		25.272	45.290 123.220	1.00 57.94	C
ATOM	2933	CG	GLU A	398	25.725	44.056 123.957	1.00 71.18	С
MOTA	2934	CD	GLU A	398	25.354	42.786 123.238	1.00 77.99	С
ATOM	2935		GLU A		25.703	42.676 122.044	1.00 83.73	0
ATOM	2936		GLU A		24.727	41.899 123.865	1.00 76.41	ŏ
						47.262 124.453	1.00 47.03	N
ATOM	2937	N	TRP A		23.191			
ATOM	2938	CA	TRP A	399	22.792	48.631 124.750	1.00 50.15	С
ATOM	2939	С	TRP A	399	23.728	49.619 124.043	1.00 54.33	С
ATOM	2940	0	TRP A	399	23.350	50.753 123.751	1.00 58.30	0
ATOM	2941	СВ	TRP A		22.815	48.849 126.268	1.00 55.61	С
ATOM	2942	CG	TRP A		22.007	50.024 126.770	1.00 57.12	č
								č
MOTA	2943		TRP A		20.647	50.184 126.701	1.00 54.16	C
ATOM	2944	CD2	TRP A	399	22.511	51.181 127.447	1.00 62.24	С
ATOM	2945	NE1	TRP A	399 ·	20.277	51.367 127.296	1.00 56.16	N
ATOM	2946	CE2	TRP A	399	21.401	52.000 127.760	1.00 65.34	С
ATOM	2947	CE3	TRP A		23.794	51.606 127.818	1.00 62.19	С
ATOM	2948	CZ2	TRP A		21.536	53.223 128.427	1.00 76.06	Č
								Č
MOTA	2949	CZ3	TRP A		23.929	52.823 128.481	1.00 69.98	C
MOTA	2950	CH2	TRP A	399	22.803	53.617 128.778	1.00 76.99	С
ATOM	2951	N	THR A	400	24.953	49.186 123.769	1.00 56.41	N
MOTA	2952	CA	THR A	400	25.902	50.058 123.085	1.00 56.34	С
ATOM	2953	C	THR A		25.811	49.815 121.583	1.00 59.91	С
	2954	ŏ	THR A		26.226	50.657 120.791	1.00 64.35	ŏ
ATOM								
MOTA	2955	CB	THR A		27.383	49.837 123.553	1.00 54.34	C
ATOM	2956	OG 1	THR A	400	27.846	48.544 123.148	1.00 45.99	0
MOTA	2957	CG2	THR A	400	27.494	49.950 125.071	1.00 57.48	С
ATOM	2958	N	SER A	401	25.265	48.662 121.199	1.00 58.74	N
ATOM	2959	CA	SER A		25.121	48.327 119.789	1.00 52.36	С
ATOM	2960	Ċ	SER A		24.381	49.451 119.082	1.00 46.82	Ċ
							1.00 56.74	ŏ
ATOM	2961	0_	SER A		23.467	50.057 119.639		
MOTA	2962	CB	SER A		24.361	47.014 119.617	1.00 53.66	Ċ
MOTA	2963	OG	SER A	401	25.156	45.930 120.048	1.00 66.24	0
MOTA	2964	N	ARG A	402	24.806	49.737 117.858	1.00 37.82	N
ATOM	2965	CA	ARG A	402	24.212	50.786 117.055	1.00 35.51	С
ATOM	2966	C	ARG A		23.541	50.093 115.868	1.00 33.40	С
	2967		ARG A		24.171	49.301 115.171	1.00 39.64	ŏ
MOTA		O CP					1.00 35.13	Č
ATOM	2968	CB	ARG A		25.311	51.744 116.592		č
ATOM	2969	CG	ARG A		24.822	53.137 116.240	1.00 38.74	Ċ
MOTA	2970	CD	ARG A	402	25.977	54.027 115.780	1.00 46.52	С
ATOM	2971	NE	ARG A	402	25.556	55.298 115.175	1.00 65.72	N
ATOM	2972	CZ	ARG A		24.891	56.272 115.802	1.00 76.44	С
ATOM	2973		ARG A		24.542	56.149 117.081	1.00 80.92	Ñ
					24.590		1.00 72.87	N
ATOM	2974		ARG A			57.389 115.146		
ATOM	2975	N	LEU A		22.262	50.379 115.636	1.00 32.46	N
MOTA	2976	CA	LEU A		21.544	49.728 114.538	1.00 39.75	C
MOTA	2977	С	LEU A	403	21.524	50.458 113.194	1.00 47.84	č
ATOM	2978	0	LEU A		21.198	51.645 113.119	1.00 53.11	0
ATOM	2979	ČВ	LEU A		20.112	49.414 114.967	1.00 34.32	С
			LEU A		19.110	49.102 113.850	1.00 23.74	č
MOTA	2980	CG				48.111 112.814		c c
ATOM	2981		LEU A		19.665		1.00 34.79	č
ATOM	2982		LEU A		17.871	48.552 114.512	1.00 16.75	Ċ
MOTA	2983	N	ARG A		21.856	49.734 112.126	1.00 51.96	N
ATOM	2984	CA	ARG A	404	21.877	50.330 110.801	1.00 61.16	С
ATOM	2985	C	ARG A		21.007	49.571 109.835	1.00 61.63	C C
ATOM	2986	õ	ARG A		20.941	48.345 109.865	1.00 62.38	ō
MOTA	2987	СВ	ARG A		23.299	50.360 110.262	1.00 77.33	č
						50.669 108.777	1.00 77.33	č
MOTA	2988	CG	ARG A	404	23.395	30.007 100.777	1.00 33.31	·

ATOM	2989	CD	ARG	Α	404	24.842	50 752	108.330	1 001	04.56	С
ATOM	2990	NE	ARG								N
						24.958		106.924		.08.36	
ATOM	2991	CZ	ARG			26.087		106.347		10.69	C
MOTA	2992		ARG			27.207		107.054		.13.17	N
ATOM	2993	NH2	ARG	Α	404	26.092	51.853	105.065	1.001	.15.15	N
ATOM	2994	N	SER	Α	405	20.345		108.960	1.00	65.87	N
ATOM	2995	CA	SER			19.487		107.965		64.24	C
	2996	c	SER		1.2	19.162		106.840		59.61	č
ATOM											
ATOM	2997	0	SER			19.135		107.051		58.40	0
MOTA	2998	CB	SER			18.202	49.202	108.629		64.50	С
ATOM	2999	OG	SER	Α	405	17.527	48.275	107.799		70.73	0
MOTA	3000	N	HIS	Α	406	18.931	50.127	105.647	1.00	53.12	N
MOTA	3001	CA	HIS			18.595		104.481		46.56	С
MOTA	3002	C	HIS			17.068		104.277		35.83	c c
										29.57	č
ATOM	3003	0	HIS			16.404		104.503			0
ATOM	3004	CB	HIS			19.293		103.228		48.87	0 C
ATOM	3005	CG	HIS			20.771	50.232	103.374		54.29	
ATOM	3006	NDl	HIS	A	406	21.673	50.862	102.543	1.00	45.66	N
MOTA	3007	CD2	HIS	Α	406	21.505	49.497	104.243	1.00	61.18	С
MOTA	3008	CE1	HIS	Α	406	22.899		102.894	1.00	56.81	С
MOTA	3009		HIS			22.825		103.924		64.48	N
	3010	N	ILE			16.517		103.843		33.33	N
ATOM											, i
ATOM	3011	CA	ILE		407	15.079		103.648		27.22	C C
ATOM	3012	C	ILE			14.763		102.278		27.16	Č
ATOM	3013	0	ILE			15.310		101.900		32.16	0
ATOM	3014	CB	ILE	Α	407	14.498	53.124	104.715	1.00	23.67	С
MOTA	3015	CG1	ILE	Α	407	14.838	52.598	106.109	1.00	16.69	С
ATOM	3016		ILE			12.999		104.531		29.79	С
ATOM	3017	CD1	ILE			14.805		107.162		26.25	0 C C C
		N	ASN			13.864		101.545		26.02	N
ATOM	3018										č
MOTA	3019	CA	ASN			13.477		100.198		28.35	Č
ATOM	3020	С	ASN			12.636		100.237		25.53	C
ATOM	3021	0	ASN	Α	408	11.939	54.105	101.224		19.57	0
ATOM	3022	CB	ASN	Α	408	12.662	51.492	99.445	1.00	31.03	С
ATOM	3023	CG	ASN	Α	408	13.443	50.213	99.200	1.00	34.57	С
MOTA	3024		ASN	А	408	14.671	50.232	99.080	1.00	53.90	0
MOTA	3025		ASN			12.732	49.094	99.099		23.17	N
ATOM	3026	N	PRO			12.695	54.655	99.161		25.66	N
						11.926	55.903	99.075		25.52	č
MOTA	3027	CA	PRO					99.285		25.11	č
ATOM	3028	Ç	PRO			10.425	55.646				ŏ
MOTA	3029	0	PRO			9.847	54.751	98.667		19.70	
ATOM	3030	CB	PRO			12.236	56.402	97.661		26.57	C
MOTA	3031	CG	PRO			13.641	55.958	97.458		30.00	Ç
MOTA	3032	CD	PRO	Α	409	13.613	54.536	98.012		27.07	С
MOTA	3033	N	THR	Α	410	9.811	56.438	100.160	1.00	25.25	N
MOTA	3034	CA	THR	Α	410	8.389	56.323	100.490	1.00	21.37	C
MOTA	3035	С	THR	Α	410	8.057	54.967	101.118	1.00	24.99	С
ATOM	3036	0	THR			6.888	54.650	101.346	1.00	19.45	0
MOTA	3037	СВ	THR			7.481	56.535	99.248		11.71	Ċ
ATOM	3038		THR			7.290	55.293	98.556	1.00	6.84	ō
								98.297		18.20	č
MOTA	3039		THR			8.111	57.544				
MOTA	3040	N	GLY			9.094		101.394		28.42	N
MOTA	3041	CA	GLY	Α	411	8.908		102.000			c
ATOM	3042	С	GLY	A	411	9.056	52.916	103.518		38.12	
MOTA	3043	0	GLY	Α	411	9.206	53.994	104.109	1.00	30.75	0
MOTA	3044	N	THR	Α	412	9.017	51.744	104.153	1.00	35.64	N
MOTA	3045	CA	THR	A	412	9.139	51.650	105.604	1.00	24.91	С
MOTA	3046	C	THR			9.714		106.065	1.00	34.60	С
ATOM	3047	ŏ	THR			9.342		105.537		43.97	ō
MOTA	3048	СB	THR			7.769		106.262		17.00	C
MOTA	3049		THR			7.159		105.761		12.89	ő
						7.904		107.786		20.31	č
MOTA	3050		THR								N
MOTA	3051	N	VAL			10.626		107.036		35.58	
ATOM	3052	CA	VAL			11.212		107.591		35.35	c
MOTA	3053	С	VAL			10.678		109.005		37.44	c
MOTA	3054	0	VAL	Α	413	10.978		109.889		40.54	0
MOTA	3055	CB	VAL			12.738		107.672		31.35	c
MOTA	3056	CG1	VAL	Α	413	13.255		108.500		32.15	C
MOTA	3057	CG2	VAL	Α	413	13.331		106.285		38.55	С
MOTA	3058	N	LEU			9.876		109.205		34.54	N
MOTA	3059	CA	LEU			9.262	47.657	110.494		27.00	С
ATOM	3060	Ċ	LEU			10.077		111.273		25.79	С
ATOM	3061	ŏ	LEU			10.373		110.761		25.63	ō
ATOM	3062	СВ	LEU			7.865		110.270		25.75	
ATOM	3063	CG	LEU			7.129		111.528		26.71	č
ATOM	3064					7.123		112.492		25.98	0000
			LEU					111.139		23.70	× ×
MOTA	3065		LEU			5.732				20.72	N
ATOM	3066	N	LEU			10.418		112.511			C
MOTA	3067	CA	LEU			11.212		113.349		25.29	
MOTA	3068	C	LEU			10.501		114.611		35.11	C
ATOM	3069	0	LEU	Α	415	9.619	40.4/3	115.058	1.00	40.83	0

MOTA	3070	ÇВ	LEU	Α 4	415	12.512	46.774	113.739	1.00	26.14	С
ATOM	3071	ĊĠ	LEU			13.445		112.580		35.73	č
MOTA	3072		LEU			14.630	47.860	113.057		32.15	С
MOTA	3073		LEU			13.881		112.002		31.51	С
MOTA	3074	N	GLN			10.909		115.199		45.21	N
MOTA MOTA	3075 3076	CA	GLN GLN			10.342		116.465		49.37	c c
ATOM	3077	ŏ	GLN			12.252		117.400 117.085		54.45	0
ATOM	3078	СB	GLN			9.384		116.262		53.69	č
ATOM	3079	ĊĠ	GLN			8.851		117.555		61.76	č
ATOM	3080	CD	GLN	Α 4	416	7.948	41.319	117.342	1.00	70.07	С
ATOM	3081		GLN			6.852		116.827		69.41	0
MOTA	3082		GLN			8.412		117.716		71.96	N
MOTA MOTA	3083 3084	N CA	LEU			11.530 12.565		118.551 119.532		44.33 39.55	N C
MOTA	3085	C	LEU			12.102		120.757		43.96	c
ATOM	3086	ŏ	LEU			11.068		121.354		47.68	ō
MOTA	3087	СB	LEU			13.193		120.005		28.58	С
MOTA	3088	CG	LEU			13.889		118.965		23.76	С
MOTA	3089		LEU			12.937		117.871		23.16	c
MOTA MOTA	3090 3091	N N	LEU GLU			14.412 12.930		119.678 121.129		37.98 50.78	C N
MOTA	3092	CA	GLU			12.740		122.294		56.06	č
ATOM	3093	Ċ			418	13.886		123.273		52.73	č
MOTA	3094	0	GLU	Α 4	418	15.048		122.883	1.00	52.36	0
ATOM	3095	CB	GLU			12.778		121.878		73.81	Č
ATOM	3096	CG	GLU			11.697		120.905		81.37	C
MOTA MOTA	3097 3098	CD	GLU GLU			10.318		121.434 122.624		88.26 88.90	C
ATOM	3099		GLU			9.485		120.664		92.72	ŏ
ATOM	3100	N	ASN			13.561		124.547		51.08	N
MOTA	3101	CA	ASN	Α 4	419	14.575	42.170	125.563		62.26	С
MOTA	3102	С	ASN			15.010		126.204		72.70	C
MOTA	3103	0	ASN			14.160		126.549		77.62 61.20	0 C
MOTA MOTA	3104 3105	CB CG	ASN ASN			13.983 15.024		126.607 127.495		66.62	Ċ
MOTA	3106		ASN			15.714		128.242		68.87	ŏ
ATOM	3107		ASN			15.149		127.426		72.89	N
MOTA	3108	N	THR			16.317		126.367		81.68	N
ATOM	3109	CA	THR			16.818		126.947		90.74	c
MOTA	3110	C	THR THR			16.281		128.332		.04.05	C O
ATOM ATOM	3111 3112	O CB	THR			16.454 18.366		128.782 126.998		81.03	č
ATOM	3113		THR			18.869		125.693		75.62	õ
MOTA	3114		THR			18.886		127.975		77.69	C
MOTA	3115	N	MET			15.627		128.998		13.95	N
ATOM	3116	CA	MET			15.065		130.331		.20.80	C C
MOTA MOTA	3117 3118	C O	MET			15.982 16.695		131.225 132.082		.23.07 .23.93	Ö
ATOM	3119	СВ	MET			13.688		130.230		25.37	č
MOTA	3120	CG	MET			13.707		129.761		32.66	Ċ
ATOM	3121	SD	MET	Α 4	421	13.245		128.032		39.40	S
ATOM	3122	CE	MET			11.455	37.308	128.169	1.001	40.66	С
TER	3123		MET	Α 4	421						
CHAIN	В										
	_ ,	Acom	_					_			
		Lype	Res		#	<u>X</u>	<u>Y</u>	<u>Z</u>	<u>0CC</u>	<u>B</u>	
MOTA	3124	N	LEU		32	18.182	70.054	66.135		79.74 75.16	N C
MOTA MOTA	3125 3126	CA C	LEU		32 32	19.509 19.643	70.198 69.164	65.474 64.364		74.82	. c
MOTA	3127	ò	LEU		32	19.674	67.959	64.622		74.40	ŏ
ATOM	3128	ČВ	LEU		32	20.631	70.015	66.499		69.65	С
MOTA	3129	CG	LEU	В	32	22.052	70.032	65.945	1.00	63.79	С
MOTA	3130		LEU		32	22.277	71.300	65.142		69.05	c
MOTA	3131		LEU		32	23.037	69.926	67.088		60.38	C
MOTA	3132 3133	N CA	ASP ASP		33 33	19.718 19.829	69.637 68.743	63.127 61.980		75.12 77.12	N C
MOTA	3134	C	ASP		33	21.250	68.235	61.775		73.83	č
ATOM	3135	ŏ	ASP		33	21.982	68.735	60.929		79.11	0
MOTA	3136	CB	ASP	В	33	19.331	69.453	60.719		84 26	C
MOTA	3137	CG	ASP		33	19.411	68.578	59.477		92.75	C
MOTA	3138		ASP		33	20.533	68.328 68.142	58.990 58.982		96.10	0
MOTA MOTA	3139 3140	N N	ASP ASN		33 34	18.348 21.631	67.237	62.565		01.06 68.75	И
MOTA	3141	CA	ASN		34	22.955	66.629	62.490		61.95	С
MOTA	3142	С	ASN	В	34	22.745	65.183	62.084	1.00	61.51	С
MOTA	3143	0	ASN		34	23.643	64.354	62.194		62.64	0
MOTA	3144	CB	ASN		34	23.625	66.670	63.860		60.52	C
MOTA	3145	CG	ASN	Ħ	34	22.702	66.183	64.965	1.00	60.45	С

ATVOM	3146	001	ASN B	34	21 072	CE 300	CA 744	1.00 75.84	•
MOTA					21.873	65.300	64.744		0
MOTA	3147	ND2	ASN B	34	22.846	66.751	66.159	1.00 52.80	N
MOTA	3148	N	GLY B	35	21.536	64.889	61.624	1.00 59.99	N
ATOM	3149	CA	GLY B	35	21.211		61.222	1.00 56.70	
						63.539			Ç
ATOM	3150	С	GLY B	35	21.134	62.635	62.432	1.00 51.54	C
MOTA	3151	0	GLY B	35	21.241	61.417	62.310	1.00 50.80	0
		N			20.965	63.236	63.606	1.00 50.80	
MOTA	3152		LEU B	36					N
ATOM	3153	CA	LEU B	36	20.868	62.473	64.841	1.00 53.80	С
ATOM	3154	С	LEU B	36	19.532	62.692	65.510	1.00 55.66	С
MOTA	3155	0	LEU B	36	18.915	63.752	65.374	1.00 54.78	0
ATOM	3156	CB	LEU B	36	21.981	62.851	65.817	1.00 55.51	С
ATOM	3157	CG	LEU B	36	23.391	62.428	65.431	1.00 61.24	Ċ
									2
ATOM	3158	CDI	LEU B	36	24.307	62.620	66.627	1.00 69.17	С
ATOM	3159	CD2	LEU B	36	23.388	60.968	64.995	1.00 64.69	C
ATOM	3160	N	ALA B	37	19.094	61.682	66.249	1.00 55.44	N
									.,
ATOM	3161	CA	ALA B	37	17.823	61.773	66.924	1.00 56.47	С
MOTA	3162	С	ALA B	37	16.770	62.027	65.857	1.00 55.07	С
ATOM	3163	0	ALA B	37	16.046	63.024	65.910	1.00 61.48	0
ATOM	3164	CB	ALA B	37	17.841	62.910	67.929	1.00 48.50	С
ATOM	3165	N	ARG B	38	16.715	61.141	64.864	1.00 52.66	N
		CA	ARG B	38	15.710	61.260	63.818	1.00 54.70	С
MOTA	3166								
ATOM	3167	С	ARG B	38	14.532	60.514	64.402	1.00 53.28	С
ATOM	3168	0	ARG B	38	13.529	60.268	63.745	1.00 56.89	0
	3169	ČВ	ARG B	38	16.150	60.591	62.511	1.00 60.48	С
ATOM									
ATOM	3170	CG	ARG B	38	17.485	61.061	61.940	1.00 67.93	С
ATOM	3171	CD	ARG B	38	17.698	62.565	62.071	1.00 73.20	С
							61.302	1.00 75.02	N
MOTA	3172	NE	ARG B	38	16.750	63.366			
MOTA	3173	CZ	ARG B	38	16.732	64.698	61.314	1.00 75.84	С
MOTA	3174	NH1	ARG B	38	17.607	65.368	62.054	1.00 71.97	N
							60.587	1.00 71.94	N
MOTA	3175		ARG B	38	15.847	65.365			
ATOM	3176	N	THR B	39	14.708	60.145	65.663	1.00 49.27	N
ATOM	3177	CA	THR B	39	13.718	59.444	66.473	1.00 48.97	С
						59.752	67.930	1.00 45.13	Ċ
MOTA	3178	C	THR B	39	14.065				Č
MOTA	3179	0	THR B	39	15.234	59.923	68.281	1.00 41.30	0
ATOM	3180	CB	THR B	39	13.784	57.923	66.284	1.00 51.41	С
			THR B	39	15.090	57.453	66.642	1.00 53.32	0
ATOM	3181								
ATOM	3182	CG2	THR B	39	13.491	57.557	64.849	1.00 53.48	С
ATOM	3183	N	PRO B	40	13.052	59.838	68.797	1.00 43.40	N
		CA	PRO B	40	13.339	60.129	70.203	1.00 44.54	С
ATOM	3184								
ATOM	3185	С	PRO B	40	14.477	59.233	70.712	1.00 42.84	С
MOTA	3186	0	PRO B	40	14.403	58.011	70.602	1.00 41.51	0
								1.00 43.15	Ċ
ATOM	3187	CB	PRO B	40	12.008	59.833	70.884		2
MOTA	3188	CG	PRO B	40	10.994	60.182	69.811	1.00 45.82	С
ATOM	3189	CD	PRO B	40	11.614	59.597	68.575	1.00 43.19	С
									N
ATOM	3190	N	THR B	41	15.532	59.845	71.246	1.00 39.69	
ATOM	3191	CA	THR B	41	16.688	59.104	71.762	1.00 34.79	С
ATOM	3192	С	THR B	41	16.260	58.125	72.854	1.00 34.75	С
					15.420	58.464	73.688	1.00 39.58	Õ
MOTA	3193	0	THR B	41					9
MOTA	3194	СB	THR B	41	17.722	60.046	72.405	1.00 29.69	С
MOTA	3195	0G1	THR B	41	17.911	61.195	71.577	1.00 41.03	0
	3196		THR B	41	19.049	59.326	72.584	1.00 27.40	С
ATOM									
ATOM	3197	N	MET B	42	16.844	56.926	72.866	1.00 31.56	N
ATOM	3198	CA	MET B	42	16.520	55.931	73.890	1.00 30.99	С
ATOM	3199	C	MET B	42	17.766	55.515	74.667	1.00 25.79	C C
									ŏ
MOTA	3200	0	MET B	42	18.777	55.121	74.066	1.00 22.58	
ATOM	3201	CB	MET B	42	15.900	54.697	73.256	1.00 31.64	С
ATOM	3202	CG	MET B	42.	14.675	54.994	72.465	1.00 30.50	c
ATOM	3203	SD	MET B	42	13.927	53.466	71.905	1.00 35.34	S
									č
ATOM	3204	CE	MET B	42	13.193	52.944	73.482	1.00 33.78	
ATOM	3205	N	GLY B	43	17.683	55.585	75.997	1.00 17.55	N
ATOM	3206	CA	GLY B	43	18.814	55.216	76.821	1.00 10.11	С
									č
MOTA	3207	С	GLY B	43	18.537	55.205	78.314	1.00 20.21	
ATOM	3208	0	GLY B	43	17.388	55.113	78.740	1.00 26.95	0
ATOM	3209	N	TRP B	44	19.607	55.307	79.105	1.00 24.35	N
								1.00 21.41	Ċ
MOTA	3210	CA	TRP B	44	19.535	55.295	80.562		Ž
ATOM	3211	С	TRP B	44	20.361	56.447	81.108	1.00 19.25	С
ATOM	3212	0	TRP B	44	21.407	56.785	80.560	1.00 17.63	0
					20.093	53.977	81.089	1.00 16.55	Č
MOTA	3213	CB	TRP B	44		53.311			č
ATOM	3214	CG	TRP B	44	19.981	53.771	82.580	1.00 14.71	C
ATOM	3215		TRP B	44	18.878	53.325	83.271	1.00 24.41	Ċ
ATOM	3216		TRP B	44	21.010	53.979	83.564	1.00 12.56	Ċ
									N
ATOM	3217		TRP B	44	19.159	53.240	84.622	1.00 21.86	Ŋ
MOTA	3218	CE2	TRP B	44	20.456	53.637	84.831	1.00 19.49	С
ATOM	3219		TRP B	44	22.340	54.421	83.501	1.00 3.31	С
									č
MOTA	3220		TRP B	44	21.192	53.729	86.028	1.00 18.23	Č
ATOM	3221	CZ3	TRP B	44	23.069	54.508	84.685	1.00 18.81	С
MOTA	3222		TRP B	44	22.491	54.164	85.934	1.00 21.72	c c
					19.891	57.041	82.193	1.00 14.32	N
ATOM	3223	N	LEU B	45					iv .
MOTA	3224	CA	LEU B	45	20.585	58.151	82.800	1.00 12.02	c
ATOM	3225	С	LEU B	45	20.518	57.949	84.298	1.00 11.86	С
ATOM	3226	ŏ	LEU B	45	19.446	57.871	84.893	1.00 9.20	0
017	2220	_	220 3		-2.110			1.00 7.20	•

ATOM	3227	СВ	LEU	В	45	19.912	59.452	82.403	1.00 18.	.50	c
ATOM	3228	ĊĞ	LEU		45	20.723	60.735	82.556	1.00 20.	. 48	С
MOTA	3229		LEU		45	19.788	61.910	82.353	1.00 38.	. 29	С
MOTA	3230	CDZ	LEU	В	45	21.364	60.820	83.931	1.00 26.		С
MOTA	3231	N	HIS		46	21.688	57.888	84.905	1.00 15.		N
ATOM	3232	CA	HIS		46	21.811	57.646	86.324	1.00 17.	. 99	č
MOTA	3233	Č	HIS		46	21.165	58.639	87.262	1.00 20.		C
MOTA	3234 3235	0	HIS		46	20.859 23.291	58.283	88.400 86.687	1.00 18. 1.00 20.		o C
ATOM ATOM	3236	CB CG	HIS		46 46	23.894	57.539 58.830	87.147	1.00 34.	82	č
ATOM	3237		HIS		46	23.752	59.300	88.435	1.00 42.		Ñ
ATOM	3238		HIS		46	24.626	59.759	86.488	1.00 36.		Ċ
ATOM	3239		HIS		46	24.372	60.461	88.550	1.00 44.	.35	Ċ
ATOM	3240	NE2	HIS	В	46	24.911	60.763	87.383	1.00 43.	. 02	N
MOTA	3241	N	TRP		47	20.925	59.867	86.822	1.00 19.		N
ATOM	3242	CA	TRP		47	20.398	60.848	87.770	1.00 28.	. 76	C
ATOM	3243	Č	TRP		47	19.337	60.464	88.817	1.00 27.	.27	Č
ATOM	3244	0	TRP		47	19.682	60.183	89.960	1.00 21.	.13	C
ATOM ATOM	3245 3246	CB CG		В	47 47	19.935 19.839	62.126 63.234	87.074 88.093	1.00 34.	. 4 / . 2 Q	č
ATOM	3247		TRP		47	18.726	63.955	88.437	1.00 50.	.83	č
ATOM	3248		TRP		47	20.883	63.679	88.960	1.00 40.	.85	č
ATOM	3249		TRP		47	19.017	64.813	89.469	1.00 53.	.15	Ν
MOTA	3250	CE2	TRP	В	47	20.334	64.659	89.812	1.00 43.	. 61	С
MOTA	3251	CE3	TRP	В	47	22.229	63.334	89.109	1.00 37.	. 21	С
MOTA	3252		TRP		47	21.089	65.307	90.790	1.00 42.	. 53	Ċ
ATOM	3253	CZ3	TRP		47	22.977	63.975	90.077	1.00 43.	. 26	C
ATOM	3254		TRP		47	22.404	64.948	90.910	1.00 43.		C
ATOM	3255 3256	N CA	GLU		48 48	18.059 16.992	60.456 60.161	88.443 89.403	1.00 26. 1.00 26.		N C
MOTA MOTA	3257	C	GLU		48	17.236	58.982	90.336	1.00 26.	40	č
ATOM	3258	ō	GLU		48	16.961	59.074	91.540	1.00 32.	. 83	0
ATOM	3259	CB	GLU		48	15.644	59.960	88.688	1.00 23.	. 59	С
ATOM	3260	CG	GLU	В	48	14.398	60.028	89.619	1.00 21.	. 37	С
ATOM	3261	CD	GLU		48	14.277	58.855	90.596	1.00 30.		Ċ
MOTA	3262		GLU		48	14.155	57.704	90.140	1.00 25.		Ó
MOTA	3263		GLU		48	14.293	59.078	91.825	1.00 31. 1.00 18.		O N
ATOM ATOM	3264 3265	N ÇA	ARG ARG		49 49	17.764 17.980	57.886 56.690	89.797 90.604	1.00 20.		Ċ
ATOM	3266	c	ARG		49	19.190	56.682	91.510	1.00 16.	.99	č
ATOM	3267	ō	ARG		49	19.225	55.945	92.491		.54	Õ
ATOM	3268	СB	ARG		49	18.036	55.455	89.702	1.00 27.	. 12	С
ATOM	3269	CG	ARG	В	49	18.027	54.142	90.465	1.00 24.	. 47	С
ATOM	3270	CD	ARG		49	16.855	54.085	91.440	1.00 39.		C
ATOM	3271	NE	ARG		49	16.607	52.717	91.874	1.00 46.		N C
ATOM	3272 3273	CZ NH1	ARG ARG		49 49	17.402 18.500	52.033 52.594	92.687 93.173	1.00 47.		N
MOTA MOTA	3274		ARG		49	17.112	50.774	92.983	1.00 51.		N
ATOM	3275	N	PHE		50	20.175	57.506	91.187	1.00 14.		N
MOTA	3276	CA	PHE		50	21.394	57.538	91.973	1.00 21.	. 31	С
MOTA	3277	С	PHE	В	50	21.879	58.925	92.369	1.00 31.		С
MOTA	3278	0	PHE		50	22.846	59.062	93.120	1.00 37.		0
ATOM	3279	CB	PHE		50	22.480	56.789	91.201	1.00 19.		c
ATOM	3280	CG	PHE		50 50	22.172 22.492	55.332 54.405	91.017 92.004	1.00 26. 1.00 34.	. 31	Ċ
ATOM ATOM	3281 3282		PHE		50	21.506	54.892	89.884	1.00 18.	. 64	č
ATOM	3283		PHE		50	22.144	53.061	91.857	1.00 39.	.33	č
ATOM	3284		PHE		50	21.153	53.545	89.726	1.00 24.		С
ATOM	3285	CZ	PHE		50	21.472	52.630	90.710	1.00 30.	. 82	С
ATOM	3286	N	MET	В	51	21.205	59.950	91.864	1.00 43.		N
ATOM	3287	CA	MET		51	21.568	61.325	92.164	1.00 47.		C
ATOM ATOM	3288 3289	c	MET		51	23.076 23.821	61.517 60.934	92.228 91.447	1.00 48.		0
ATOM	3290	O CB	MET		51 51	20.959	61.738	93.488	1.00 43.		č
ATOM	3291	CG	MET		51	19.499	61.462	93.581	1.00 36.	.00	č
ATOM	3292	SD	MET		51	18.929	62.237	95.051	1.00 43.	. 28	S
MOTA	3293	CE	MET	В	51	18.299	63.762	94.379	1.00 50.	. 05	С
MOTA	3294	N	CYS		52	23.517	62.332	93.176	1.00 49.		N
ATOM	3295	CA	CYS		52	24.931	62.623	93.338	1.00 54.		Č
MOTA	3296 3297	С 0	CYS CYS		52 52	25.512 25.890	61.922 62.565	94.552 95.530	1.00 56. 1.00 53.		c
MOTA MOTA	3298	СВ	CYS		52 52	25.119	64.124	93.478	1.00 57.		č
MOTA	3299	SG	CYS		52	26.853	64.677	93.566	1.00 73.		s
MOTA	3300	N	ASN		53	25.591	60.600	94.476	1.00 59.	. 82	N
MOTA	3301	CA	ASN	В	53	26.111	59.793	95.571	1.00 60.		C
MOTA	3302	C	ASN		53	27.616	59.596	95.445	1.00 58.		Ç
MOTA	3303	0	ASN		53	28.094	59.124 58.441	94.413 95.571	1.00 56.		0
MOTA MOTA	3304 3305	CB CG	ASN ASN		53 53	25.418 25.860	57.580	96.705	1.00 68.		č
MOTA	3306		ASN		53	27.047	57.317	96.870	1.00 71		ŏ
MOTA	3307		ASN		53	24.909	57.127	97.503	1.00 71.		N

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3308 3309 3310 3311 3312 3313 3314 3315 3319 3320 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3330 3331 3332 3332 3332 3332 3332 3332	N CA C O CB CG CD OE1 OE2 N CA C O CB CG CD OE1 OE2 O CB CG CD OE1 OE2 OE2 CD OE1 OE2 CD OE1 OE2 CD OE1 OE2	LEU B ASP B ASP B ASP B ASP B ASP B ASP B CYS B	55555555555555555555555555555555555555	28.360 29.819 30.455 31.636 30.471 30.143 28.706 31.079 29.683 30.187 30.422 29.631 29.701 29.798 29.064 30.995 31.529 31.529 31.529 31.529 32.784 32.383 32.905 31.775 31.862 33.456 34.574 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 35.706 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36.355 36	57.286 57.257 56.047 54.703 53.900 52.807 54.789 55.971 54.485 53.063 51.855 53.063 51.855 53.063 51.855 53.063 51.855 53.063 51.855 53.063 55.742 54.944 53.775 53.045 53.072 56.257 54.595 53.340 53.138 53.138 53.138 53.138 53.138 53.138 53.072 53.072 56.257 54.740 53.059 53.059	96.500 96.462 97.529 97.426 96.546 95.451 95.574 95.588 98.549 99.648 99.242 99.579 100.812 102.105 103.113 102.118 98.535 98.077 99.204 98.989 96.879 100.408 101.609 102.279 102.485 102.599 102.279 102.485 102.599 102.485 102.599 102.376 102.815 104.523 105.457 106.615 106.374 107.767 101.119 100.183 98.796 97.908 100.228 101.467 101.668 101.668 101.6676 102.814	1.00 56.67 1.00 57.08 1.00 61.91 1.00 61.91 1.00 51.87 1.00 48.76 1.00 58.12 1.00 76.59 1.00 78.43 1.00 88.92 1.00 97.30 1.00103.84 1.00 97.30 1.00103.84 1.00 97.30 1.00103.84 1.00 97.30 1.00103.84 1.00 97.30 1.00103.84 1.00 97.30 1.00103.84 1.00 97.30 1.0015.35 1.00 88.25 1.00 94.35 1.00 88.25 1.00 94.35 1.00 88.25 1.00 94.35 1.00 88.25 1.00 94.35 1.00 88.25 1.00 94.35 1.00 88.25 1.00 94.35 1.00 88.25 1.00 97.54 1.00 88.25 1.00 97.54 1.00 88.25 1.00 97.54 1.00 88.25 1.00 97.54 1.00 88.25 1.00 97.54 1.00 87.78 1.00 98.55 1.00 99.30 1.00105.35 1.00106.68 1.00 86.43 1.00 87.78 1.00 95.96 1.00106.71 1.00112.58 1.00 81.74 1.00 81.74 1.00 82.71 1.00 82.71 1.00 85.39 1.00107.93 1.00112.68	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3357 3358 3359 3360 3361 3362 3363 3364 3365 3367 3373 3373 3373 3373 3374 3377 3378 3377 3378 3378	N CA C O CB CG OD1 OD2 N CA C O CB OG N CA C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C O C C C O C C C O C C C O C C C C C C C C C C C C C C C C C C C C	PRO B ASP B ASP B ASP B ASP B ASP B CYS B CYS B CYS B CYS B ILLE B ILLE B	60 60 60 60 60 60 61 61 61 61 61 62 62 62 62 62 63 63 63 63 64 64 64	28.642 29.279 28.385 28.760 30.239 29.434 28.812 27.212 26.320 25.635 25.286 25.286 25.286 25.286 25.516 23.880 22.989 26.211 26.097 25.516 23.880 22.989 26.211 28.362 28.355 29.371 30.998 28.546 28.774 30.222 31.114 28.458	52.012 51.691 51.308 50.574 49.814 50.902 50.762 50.354 51.539 48.019 47.231 47.761 52.586 53.783 54.746 54.496 53.619 54.533 54.738 55.485 54.533 54.738 55.744 57.574 58.533	98.589 97.310 96.134 94.972 97.694 98.695 99.546 96.419 95.344 94.677 93.481 95.870 96.236 95.318 97.443 94.900 94.388 93.592 95.988 96.659	1.00 69.56 1.00 62.09 1.00 55.61 1.00 64.29 1.00 64.33 1.00 63.75 1.00 52.52 1.00 55.79 1.00 52.43 1.00 63.61 1.00 69.03 1.00 67.01 1.00 71.87 1.00 62.45 1.00 62.45 1.00 55.68 1.00 56.63 1.00 47.03 1.00 48.82 1.00 50.63 1.00 50.63 1.00 47.03 1.00 47.03	

ATOM	3389	CGI	ILE	R	64	27.000	50 022	01 255	1 00	11 20	С
	3390			В	64		58.827	91.255	1.00 4		Č
ATOM	3391		ILE			28.729	58.878	89.439	1.00		c
MOTA				В	64	26.614	60.270	91.062	1.00 5		
MOTA	3392	N	SER		65	30.454	55.573	90.145	1.00 4		N
MOTA	3393	CA	SER		65	31.801	55.199	89.711	1.00 4		C
MOTA	3394	C	SER		65	31.795	54.426	88.410	1.00 4		C
MOTA	3395	0		В	65	30.788	53.821	88.047	1.00 4		0
ATOM	3396	CB	SER		65	32.465	54.307	90.745	1.00 4		С
ATOM	3397	OG	SER		65	32.080	52.963	90.507	1.00 4	44.54	0
MOTA	3398	N	GLU		66	32.940	54.420	87.730	1.00 4	19.26	N
MOTA	3399	CA	GLU		66	33.075	53.693	86.474		55.60	C
ATOM	3400	С	GLU	В	66	32.698	52.242	86.694	1.00 5	57.45	Ç
ATOM	3401	0	GLU	В	66	32.176	51.580	85.806	1.00 6	50.04	0
ATOM	3402	CB	GLU	В	66	34.509	53.771	85.942	1.00	54.09	С
ATOM	3403	CG	GLU	В	66	35.592	53.461	86.970	1.00 6	53.92	С
MOTA	3404	CD	GLU	В	66	36.947	53.196	86.327	1.00 6	69.85	С
ATOM	3405	OE1	GLU	В	66	37.090	52.141	85.679	1.00	73.92	0
ATOM	3406	OE2	GLU	В	66	37.863	54.037	86.454	1.00	72.73	0
MOTA	3407	N	LYS	В	67	32.977	51.737	87.883	1.00 5	59.92	N
ATOM	3408	CA	LYS	В	67	32.631	50.360	88.180	1.00 6	52.93	С
ATOM	3409	С	LY\$	В	67	31.130	50.157	87.967	1.00 9	54.45 ·	С
ATOM	3410	0		В	67	30.709	49.204	87.311		50.58	0
ATOM	3411	СВ	LYS		67	33.033	50.023	89.618	1.00		С
ATOM	3412	ĊĠ	LYS	B	67	34.547	50.023	89.847	1.00 9		Č
ATOM	3413	CD	LYS		67	34.911	49.554	91.249	1.0010		C
ATOM	3414	CE		В	67	36.418	49.369	91.418	1.0010		Č
ATOM	3415	NZ	LYS		67	36.765	48.894	92.794	1.0010		N
ATOM	3416	N	LEU		68	30.333	51.079	88.496	1.00 4		N
ATOM	3417	CA	LEU		68	28.881	51.013	88.369	1.00		Ċ
ATOM	3418	c	LEU		68	28.386	50.985	86.915	1.00 4		č
ATOM	3419	ŏ	LEU		68	27.645	50.090	86.498		35.63	ō
ATOM	3420	СВ	LEU		68	28.257	52.198	89.113		51.16	Č
ATOM	3421	CG	LEU		68	26.727	52.242	89.171	1.00		č
	3422		LEU			26.210	50.875	89.600		54.14	C
MOTA					68						c
ATOM	3423		LEU		68	26.261	53.348	90.124	1.00 4	40.32	N
ATOM	3424	N		В	69	28.803	51.973	86.142			
ATOM	3425	CA	PHE		69	28.400	52.057	84.736	1.00 4		c
ATOM	3426	c		В	69	28,738	50.779	83.956		47.20	C
ATOM	3427	0		В	69	27.975	50.352	83.076	1.00 4		0
ATOM	3428	CB	PHE	В	69	29.072	53.268	84.075		46.24	c
ATOM	3429	CG		В	69	28.452	54.593	84.465	1.00 4		C
ATOM	3430	CD1		В	69	27.190	54.948	83.995		41.14	C
ATOM	3431	CD2		В	69	29.124	55.483	85.297	1.00 4		C
ATOM	3432	CEI		В	69	26.616	56.165	84.346		18.56	c
ATOM	3433	CE2		В	69	28.555	56.701	85.651	1.00 4		C
ATOM	3434	CZ	PHE	В	69	27.300	57.041	85.174		51.58	С
ATOM	3435	N	MET		70	29.887	50.184	84.282		50.28	N
ATOM	3436	CA	MET		70	30.337	48.953	83.637		59.26	C
MOTA	3437	С		В	70	29.301	47.882	83.903		53.24	C
MOTA	3438	0	MET	В	70	28.943	47.106	83.014		67.06	0
MOTA	3439	CB		В	70	31.671	48.482	84.217		52.36	С
MOTA	3440	CG	MET		70	32.853	49.354	83.895		72.79	C
ATOM	3441	SD		В	70	34.309	48.718	84.728		76.49	S
MOTA	3442	CE		В	70	34.462	47.114	83.929		71.92	C
ATOM	3443	N	GLU		71	28.836	47.826	85.144		62.74	N
ATOM	3444	CA	GLU		71	27.849	46.836	85.467		60.66	G
ATOM	3445	С	GLU		71	26.661	47.124	84.582		56.18	C
MOTA	3446	0	GLU		71	26.330	46.328	83.704	1.00		0
ATOM	3447	CB	GLU		71	27.443	46.922	86.926	1.00		Ç
ATOM	3448	CC	GLU		71	26.921	45.613	87.451	1.00		C
ATOM	3449	CD	GLU		71	26.586	45.694	88.911	1.00		C
ATOM	3450		GLU		71	26.584	44.640	89.578	1.00		0
ATOM	3451	OE2	GLU		71	26.322	46.819	89.387	1.00		0
MOTA	3452	N	MET		72	26.045	48.283	84.793	1.00 9		N
MOTA	3453	CA	MET	В	72	24.887	48.669	84.005	1.00 9		С
ATOM	3454	C	MET	В	72	25.057	48.295	82.545	1.00 5		С
ATOM	3455	0	MET	В	72	24.247	47.548	81.993	1.00		0
ATOM	3456	CB	MET	В	72	24.611	50.171	84.128	1.00 5	51.43	C
ATOM	3457	CG	MET	В	72	23.672	50.528	85.269	1.00 4	45.55	c s
MOTA	3458	SD	MET	В	72	22.168	49.503	85.293	1.00	56.76	S
ATOM	3459	CE	MET		72	21.816	49.419	87.103	1.00 4		C
ATOM	3460	N	ALA		73	26.118	48.796	81.924	1.00		N
MOTA	3461	CA	ALA		73	26.368	48.500	80.522	1.00 5	55.06	С
MOTA	3462	С	ALA		73	26.100	47.025	80.244	1.00 9		С
ATOM	3463	0	ALA		73	25.221	46.680	79.451	1.00 9	59.76	0
ATOM	3464	CB	ALA		73	27.804	48.849	80.165	1.00 9		С
ATOM	3465	N	GLU		74	26.850	46.168	80.929	1.00	60.51	N
ATOM	3466	CA	GLU	В	74	26.737	44.725	80.779	1.00		С
MOTA	3467	С	GLU		74	25.282	44.302	80.665	1.00		С
MOTA	3468	0	GLU		74	24.871	43.688	79.677	1.00		0
MOTA	3469	CB	GLU		74	27.376	44.027	81.985	1.00	70.28	С

MOTA	3470	CG	GLU B	74	28.317	42.887	81.627	1.00 88.79	С
ATOM	3471	CD	GLU B	74	27.645	41.798	80.805	1.00100.69	С
ATOM	3472	0E1	GLU B	74	26.753	41.105	81.341	1.00106.44	0
ATOM	3473	OE2	GLU B	74	28.006	41.636	79.619	1.00105.25	0
MOTA	3474	N	LEU B	75	24.514	44.660	81.690	1.00 51.75	N
MOTA	3475	CA	LEU B	75	23.097	44.333	81.783	1.00 50.39	С
ATOM	3476	С	LEU B	75	22.227	44.748	80.600	1.00 48.71	С
ATOM	3477	Ó	LEU B	75	21.553	43.911	79.997	1.00 51.38	0
ATOM	3478	СВ	LEU B	75	22.512	44.939	83.053	1.00 54.68	Č
ATOM	3479	CG	LEU B	75	22.923	44.280	84.365	1.00 60.00	č
ATOM	3480		LEU B	75	24.431	44.293	84.522	1.00 66.87	č
			LEU B	75	22.258	45.017	85.507	1.00 65.84	č
ATOM	3481							1.00 44.91	
MOTA	3482	N	MET B	76	22.214	46.035	80.278		N
ATOM	3483	CA	MET B	76	21.392	46.500	79.173	1.00 50.42	c
ATOM	3484	C	MET B	76	21.421	45.474	78.046	1.00 55.62	C
MOTA	3485	0_	MET B	76	20.414	45.210	77.394	1.00 62.87	0
ATOM	3486	CB	MET B	76	21.897	47.858	78.686	1.00 41.64	C
ATOM	3487	CG	MET B	76	21.718	48.971	79.703	1.00 39.29	Ç
ATOM	3488	ŞD	MET B	76	22.349	50.547	79.110	1.00 40.97	S
ATOM	3489	ÇE	MET B	76	21.001	50.979	77.992	1.00 38.29	С
ATOM	3490	N	VAL B	77	22.596	44.890	77.852	1.00 56.45	N
ATOM	3491	CA	VAL B	77	22.826	43.874	76.832	1.00 57.26	С
ATOM	3492	. C	VAL B	77	22.219	42.535	77.268	1.00 56.69	С
ATOM	3493	0	VAL B	77	21.548	41.859	76.486	1.00 58.33	0
ATOM	3494	CB	VAL B	77	24.347	43.677	76.595	1.00 58.52	С
ATOM	3495		VAL B	77	24.577	42.711	75.467	1.00 64.12	c c
ATOM	3496		VAL B	77	25.015	45.014	76.305	1.00 62.67	С
ATOM	3497	N	SER B	78	22.463	42.179	78.530	1.00 54.01	N
ATOM	3498	CA	SER B	78	21.979	40.937	79.130	1.00 54.88	С
ATOM	3499	C.	SER B	78	20.480	40.723	79.009	1.00 59.60	C C
ATOM	3500	ŏ	SER B	78	20.026	39.975	78.148	1.00 63.77	Õ
ATOM	3501	СB	SER B	78	22.357	40.871	80.604	1.00 53.95	C
ATOM	3502	OG	SER B	78	23.759	40.876	80.768	1.00 55.24	ō
ATOM	3503	N	GLU B	79	19.704	41.361	79.876	1.00 62.46	N
ATOM	3504	CA	GLU B	79	18.256	41.198	79.840	1.00 65.67	Ċ
			GLU B	79	17.596	41.854	78.640	1.00 62.34	č
MOTA	3505	C			16.463	42.319	78.706	1.00 57.87	ō
MOTA	3506	0	GLU B	79		41.771	81.109	1.00 73.87	č
ATOM	3507	CB	GLU B	79	17.621				Ċ
ATOM	3508	CG	GLU B	79	18.006	41.035	82.382	1.00 77.59	<u> </u>
ATOM	3509	CD	GLU B	79	17.497	39.608	82.407	1.00 75.00	C
ATOM	3510		GLU B	79	16.351	39.378	81.966	1.00 81.09	0
ATOM	3511		GLU B	79	18.244	38.719	82.868	1.00 68.80	0
ATOM	3512	N	GLY B	80	18.335	41.892	77.546	1.00 66.49	N
MOTA	3513	CA	GLY B	80	17.823	42.437	76.305	1.00 70.49	c
ATOM	3514	C	GLY B	80	17.217	43.824	76.282	1.00 65.38	C
ATOM	3515	0	GLY B	80	16.159	44.027	75.676	1.00 63.73	0
ATOM	3516	N	TRP B	81	17.873	44.778	76.938	1.00 58.71	N
ATOM	3517	CA	TRP B	81	17.391	46.155	76.928	1.00 49.89	C
ATOM	3518	Ç	TRP B	81	17.781	46.751	75.582	1.00 47.71	c
MOTA	3519	0	TRP B	81	16.982	47.408	74.906	1.00 43.13	0
MOTA	3520	CB	TRP B	81	18.031	46.964	78.046	1.00 39.95	C
ATOM	3521	CG	TRP B	81	17.513	46.578	79.378	1.00 41.75	Ċ
MOTA	3522	CD1		81	18.116	45.766	80.293	1.00 49.58	c c
ATOM	3523	CD2	TRP B	81	16.262	46.969	79.947	1.00 44.93	C
ATOM	3524	NE1	TRP B	81	17.316	45.629	81.404	1.00 51.02	N
ATOM	3525	CE2	TRP B	81	16.169	46.356	81.217	1.00 47.47	С
ATOM	3526	CE3		81	15.206	47.775	79.506	1.00 49.30	c c
ATOM	3527	CZ2	TRP B	81	15.060	46.527	82.055	1.00 51.93	
ATOM	3528		TRP B	81	14.102	47.944	80.340	1.00 54.66	С
ATOM	3529	CH2	TRP B	81	14.039	47.321	81.597	1.00 56.17	С
ATOM	3530	N	LYS B	82	19.026	46.503	75.196	1.00 47.14	N
ATOM	3531	CA	LYS B	82	19.542	46.992	73.932	1.00 46.37	С
MOTA	3532	С	LYS B	82	18.597	46.581	72.816	1.00 42.01	С
ATOM	3533	0	LYS B	82	18.156	47.412	72.034	1.00 41.69	0
ATOM	3534	CB	LYS B	82	20.931	46.414	73.687	1.00 54.64	c
ATOM	3535	CG	LYS B	82	21.640	46.992	72.484	1.00 57.29	С
ATOM	3536	CD	LYS B	82	23.098	46.567	72.483	1.00 68.46	С
ATOM	3537	CE	LYS B	82	23.779	46.955	71.188	1.00 77.68	С
ATOM	3538	NZ	LYS B	82	23.091	46.322	70.027	1.00 86.52	N
ATOM	3539	N	ASP B	83	18.274	45.293	72.768	1.00 40.57	N
ATOM	3540	CA	ASP B	83	17.377	44.734	71.759	1.00 54.12	С
ATOM	3541	c	ASP B	83	16.059	45.499	71.646	1.00 58.47	С
ATOM	3542	ŏ	ASP B	83	15.521	45.673	70.554	1.00 64.42	0
MOTA	3543	СB	ASP B	83	17.064	43.269	72.085	1.00 62.53	č
ATOM	3544	CG	ASP B	83	18.301	42.388	72.105	1.00 66.47	c c
ATOM	3545		ASP B	83	18.214	41.259	72.633	1.00 69.11	ō
MOTA	3546		ASP B	83	19.355	42.813	71.594	1.00 67.33	ŏ
MOTA	3547	N	ALA B	84	15.541	45.953	72.782	1.00 59.07	N
MOTA	3548	CA	ALA B	84	14.275	46.678	72.805	1.00 57.00	C
ATOM	3549	c.	ALA B	84	14.391	48.105	72.302	1.00 53.21	Ċ
ATOM	3550	ŏ	ALA B	84	13.398	48.697	71.895	1.00 54.97	Ō

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MOTA	3551	CB	ALA	В	84	13.693	46.672	74.208	1.00 64.01	C
ATOM	3552	N	GLY	В	85	15.595	48.664	72.333	1.00 47.70	N
	3553	CA	GLY		85			_	1.00 45.23	Ċ
ATOM						15.761	50.021	71.848		_
ATOM	3554	С	GLY	В	85	16.727	50.905	72.611	1.00 45.80	С
ATOM	3555	0	GLY	В	85	17.442	51.704	72.001	1.00 43.19	0
ATOM	3556	N	TYR		86	16.746	50.788	73.938	1.00 45.96	N
ATOM	3557	CA	TYR		86	17.640	51.608	74.755	1.00 46.92	C
ATOM	3558	С	TYR	В	86	19.037	51.309	74.270	1.00 47.08	С
	3559	0	TYR		86	19.473		74.295	1.00 57.42	Ó
ATOM							50.164			<u> </u>
ATOM	3560	CB	TYR	В	86	17.479	51.243	76.222	1.00 52.22	000000
ATOM	3561	CG	TYR	В	86	16.042	51.356	76.651	1.00 52.78	С
			TYR						1.00 50.28	č
ATOM	3562				86	15.501	52.581	77.023		_
ATOM	3563	CD2	TYR	В	86	15.201	50.247	76.616	1.00 56.77	C
ATOM	3564	CEl	TYR	В	86	14.154	52.697	77.351	1.00 53.62	С
						13.852			1.00 59.13	r.
MOTA	3565		TYR		86		50.352	76.939		_
MOTA	3566	CZ	TYR	В	86	13.336	51.578	77.307	1.00 60.42	C
MOTA	3567	OH	TYR	R	86	12.008	51.685	77.646	1.00 66.24	0
									1.00 43.55	N
MOTA	3568	N	GLU		87	19.732	52.338	73.811	- ::	
ATOM	3569	CA	GLU	В	87	21.066	52.147	73.275	1.00 42.08	С
MOTA	3570	С	GLU	R	87	22.058	53.155	73.814	1.00 32.09	С
										ŏ
ATOM	3571	0	GLU		87	23.246	53.075	73.542	1.00 31.92	Ų
MOTA	3572	CB	GLU	В	87	20.988	52.224	71.756	1.00 57.82	С
ATOM	3573	CG	GLU	R	87	22.288	52.407	71.031	1.00 79.46	C
										č
MOTA	3574	CD	GLU		87	22.061	52.534	69.540	1.00 94.32	· ·
ATOM	3575	OE1	GLU	В	87	21.164	53.316	69.146	1.00 93.22	0
ATOM	3576		GLU		87	22.773	51.859	68.764	1.00105.72	0
MOTA	3577	N	TYR		88	21.564	54.095	74.602	1.00 28.08	N
MOTA	3578	CA	TYR	В	88	22.418	55.120	75.187	1.00 28.39	С
ATOM	3579	C	TYR		88	22.546	55.016	76.705	1.00 32.01	С
										č
MOTA	3580	0	TYR	В	88	21.556	55.062	77.431	1.00 40.48	0
MOTA	3581	CB	TYR	В	88	21.884	56.505	74.829	1.00 33.19	C
	3582	CG	TYR		88	22.226	56.962	73.436	1.00 37.55	С
ATOM										ž
MOTA	3583		TYR		88	23.396	57.683	73.184	1.00 42.68	С
ATOM	3584	CD2	TYR	В	88	21.375	56.693	72.377	1.00 47.22	c
MOTA	3585		TYR		88	23.709	58.133	71.914	1.00 43.08	С
										č
MOTA	3586	CEZ	TYR	В	88	21.673	57.136	71.092	1.00 51.13	C
MOTA	3587	CZ	TYR	В	88	22.843	57.860	70.864	1.00 42.93	С
	3588	ОН	TYR		88	23.136	58.323	69.595	1.00 38.53	0
ATOM										
MOTA	3589	N	LEU	В	89	23.776	54.885	77.183	1.00 27.32	N
MOTA	3590	CA	LEU	В	89	24.037	54.794	78.617	1.00 28.99	С
	3591	C	LEU		89	24.711	56.127	78.944	1.00 32.72	С
ATOM										č
MOTA	3592	0	LEU	В	89	25.780	56.433	78.406	1.00 22.54	0
MOTA	3593	CB	LEU	В	89	24.963	53.605	78.879	1.00 29.88	С
						25.375	53.272	80.302	1.00 40.95	С
ATOM	3594	CG	LEU		89					Č
MOTA	3595	CD1	LEU	В	89	24.159	53.175	81.182	1.00 55.49	С
ATOM	3596	CD2	LEU	В	89	26.140	51.964	80.284	1.00 37.32	Ċ
	3597				90	24.090	56.930	79.804	1.00 39.74	N
ATON		N	CYS							
ATON	3598	CA	CYS	В	90	24.645	58.242	80.108	1.00 43.17	С
ATOM	3599	С	CYS	В	90	24.920	58.599	81.545	1.00 46.82	С
	3600	ō			90	24.175	58.230	82.463	1.00 48.55	0
ATOM			CYS							
ATOM	3601	СВ	CYS	В	90	23.750	59.298	79.503	1.00 43.07	С
ATOM	3602	SG	CYS	В	90	23.343	58.858	77.818	1.00 53.47	S
	3603		ILE		91	26.006	59.348	81.712	1.00 44.38	N
ATOM		N								
ATOM	3604	CA	ILE	В	91	26.459	59.813	83.012	1.00 33.49	С
MOTA	3605	С	ILE	В	91	25.927	61.213	83.230	1.00 34.00	С
ATOM	3606	ō	ILE		91	25.935	62.044	82.316	1.00 42.32	O
										č
MOTA	3607	СВ	ILE		91	27.984	59.908	83.084	1.00 26.35	
MOTA	3608	CG1	ILE	В	91	28.613	58.593	82.651	1.00 32.38	С
MOTA	3609		ILE		91	28.408	60.256	84.504	1.00 23.86	С
				_	• •			82.576	1.00 37.01	č
ATOM	3610		ILE		91	30.107	58.652			
ATOM	3611	N	ASP	В	92	25.474	61.471	84.447	1.00 29.43	N
MOTA	3612	CA	ASP		92	24.952	62.772	84.791	1.00 31.27	С
ATOM	3613				92	25.983	63.421	85.714	1.00 33.43	č
		С	ASP							
ATOM	3614	0	ASP	В	92	27.079	62.883	85.915	1.00 35.70	0
MOTA	3615	CB	ASP		92	23.586	62.616	85.477	1.00 29.94	С
ATOM	3616	ÇG	ASP		92	22.875	63.943	85.688	1.00 30.39	C
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MOTA	3617		ASP		92	23.111	64.584	86.735	1.00 32.37	0
MOTA	3618		ASP		92	22.082	64.348	84.806	1.00 18.07	0
ATOM	3619	N	ASP		93	25.626	64.572	86.269	1.00 32.81	N
MOTA	3620	CA	ASP		93	26.496	65.324	87.158	1.00 36.97	c
MOTA	3621	С	ASP	В	93	27.234	64.452	88.182	1.00 38.38	С
ATOM	3622	ō	ASP		93	26.832	63.311	88.472	1.00 34.55	0
								87.903		č
ATOM	3623	CB	ASP		93	25.674	66.384		1.00 40.48	c
ATOM	3624	CG	ASP	В	93	26.494	67.609	88.276	1.00 43.57	С
ATOM	3625		ASP		93	27.712	67.466	88.536	1.00 46.43	0
						25.915	68.718	88.325	1.00 37.49	ŏ
MOTA	3626		ASP		93					
MOTA	3627	N	CYS		94	28.325	64.999	88.713	1.00 39.48	N
MOTA	3628	CA	CYS	В	94	29.107	64.320	89.739	1.00 42.25	C
ATOM	3629	c	CYS		94	30.016	63.202	89.254	1.00 42.15	C C
							62.336	90.028		ŏ
MOTA	3630	0	CYS		94	30.416			1.00 36.63	
MOTA	3631	CB	CYS	В	94	28.154	63.822	90.839	1.00 48.72	С

ATOM	3632	ŞG	CYS B	94	27.315	65.237	91.653	1.00 73.66	S
ATOM	3633	N	TRP B	95	30.366	63.237	87.978	1.00 43.99	N
		CA	TRP B	95	31.243	62.219	87.420	1.00 50.45	Ĉ
MOTA	3634								
MOTA	3635	С	TRP B	95	32.653	62.796	87.345	1.00 56.13	Ċ
MOTA	3636	0	TRP B	95	33.629	62.062	87.155	1.00 56.63	0
MOTA	3637	CB	TRP B	95	30.811	61.883	86.002	1.00 54.40	C
ATOM	3638	CG	TRP B	95	30.992	63.057	85.087	1.00 59.17	С
ATOM	3639		TRP B	95	30.086	64.036	84.823	1.00 64.81	Ċ
					32.181				č
ATOM	3640	CD2	TRP B	95		63.403	84.354	1.00 63.77	C
MOTA	3641	NE1	TRP B	95	30.631	64.968	83.963	1.00 67.76	N
MOTA	3642	CE2	TRP B	95	31.910	64.596	83.654	1.00 65.92	С
MOTA	3643	CE3	TRP B	95	33.440	62.808	84.205	1.00 67.47	С
ATOM	3644		TRP B	95	32.852	65.218	82.841	1.00 69.16	č
		CZ3	TRP B	95	34.383	63.430	83.388	1.00 68.21	č
MOTA	3645			_					Č
ATOM	3646		TRP B	95	34.075	64.619	82.709	1.00 71.32	С
MOTA	3647	N	MET B	96	32.738	64.117	87.469	1.00 65.90	N
ATOM	3648	CA	MET B	96	34.003	64.819	87.355	1.00 75.90	С
ATOM	3649	C	MET B	96	34.798	65.081	88.631	1.00 82.19	С
ATOM	3650	ŏ	MET B	96	34.248	65.254	89.721	1.00 81.85	Ō
							86.639		č
MOTA	3651	СВ	MET B	96	33.766	66.140		1.00 73.16	
MOTA	3652	ÇG	MET B	96	32.586	66.921	87.183	1.00 68.39	Ċ
MOTA	3653	SD	MET B	96	32.333	68.458	86.294	1.00 71.72	S
MOTA	3654	CE	MET B	96	31.894	67.850	84.646	1.00 55.21	Ċ
ATOM	3655	N	ALA B	97	36.116	65.098	88.475	1.00 84.61	N
MOTA	3656	CA	ALA B	97	37.002	65.377	89.584	1.00 79.26	Ċ
ATOM	3657		ALA B	97	36.835	66.871	89.799	1.00 74.19	č
		C							
MOTA	3658	0	ALA B	97	36.292	67.569	88.945	1.00 75.52	0
ATOM	3659	CB	ALA B	97	38.437	65.050	89.209	1.00 81.06	С
MOTA	3660	N	PRO B	98	37.294	67.375	90.948	1.00 71.08	N
MOTA	3661	CA	PRO B	98	37.241	68.777	91.376	1.00 74.89	С
ATOM	3662	C	PRO B	98	37.700	69.889	90.434	1.00 77.18	c
				98	37.198	71.004	90.537	1.00 76.09	ŏ
MOTA	3663	0	PRO B						
MOTA	3664	CB	PRO B	98	38.034	68.756	92.672	1.00 79.16	C
MOTA	3665	CG	PRO B	98	37.635	67.444	93.247	1.00 74.74	С
ATOM	3666	CD	PRO B	98	37.786	66.527	92.048	1.00 72.46	С
ATOM	3667	N	GLN B	99	38.659	69.619	89.551	1.00 80.93	N
MOTA	3668	CA	GLN B	99	39.103	70.651	88.607	1.00 89.74	Ċ
					39.982		87.464	1.00 95.92	č
MOTA	3669	C	GLN B	99		70.141			
ATOM	3670	0	GLN B	99	40.448	69.005	87.477	1.00100.48	o
MOTA	3671	CB	GLN B	99	39.825	71.799	89.327	1.00 87.34	С
MOTA	3672	CG	GLN B	99	41.174	71.455	89.914	1.00 94.17	С
MOTA	3673	CD	GLN B	99	41.068	70.662	91.191	1.00 97.88	С
ATOM	3674		GLN B	99	40.660	69.502	91.186	1.00100.01	Ō
				99		71.292	92.304	1.00 95.39	й
MOTA	3675	NE2	GLN B		41.428				
MOTA	3676	N	ARG B		40.212	70.991	86.472	1.00104.87	N
MOTA	3677	CA	ARG B	100	41.010	70.616	85.307	1.00109.18	С
MOTA	3678	С	ARG B	100	42.387	70.068	85.681	1.00105.78	С
MOTA	3679	0	ARG B	100	42.724	69.930	86.856	1.00104.49	0
MOTA	3680	CB	ARG B		41.187	71.831	84.390	1.00118.39	С
					39.943	72.698	84.222	1.00121.02	č
ATOM	3681	CG	ARG B						č
MOTA	3682	CD	ARG B		38.970	72.146	83.205	1.00120.33	
MOTA	3683	NE	ARG B		37.794	73.002	83.099	1.00118.72	N
MOTA	3684	cz	ARG B	100	36.891	72.915	82.129	1.00119.00	С
MOTA	3685	NH1	ARG B	100	37.028	72.009	81.172	1.00116.72	N
ATOM	3686	NH2	ARG B	100	35.847	73.729	82.123	1.00120.98	N
ATOM	3687	N	ASP B		43.176	69.753	84.662	1.00103.43	N
ATOM	3688	CA	ASP B		44.523	69.247	84.863	1.00104.26	Ċ
			ASP B			70.281	84.358	1.00104.20	č
MOTA	3689	C			45.527				
MOTA	3690	0_	ASP B		45.144	71.383	83.974	1.00106.79	0
ATOM	3691	CB	ASP B		44.712	67.909	84.132	1.00100.77	c
ATOM	3692	CG	ASP B	101	44.228	67.944	82.687	1.00 92.36	С
MOTA	3693	OD1	ASP B	101	44.716	68.791	81.906	1.00 92.02	0
MOTA	3694		ASP B		43.363	67.111	82.327	1.00 82.12	0
ATOM	3695	N	SER B		46.810	69.933	84.371	1.00112.28	N
		CA			47.844	70.850	83.904	1.00113.66	Ċ
MOTA	3696		SER B						Č
MOTA	3697	C	SER B		47.454	71.429	82.549	1.00116.11	c
MOTA	3698	0	SER B		47.287	72.641	82.419	1.00116.14	0
ATOM	3699	CB	SER B		49.199	70.133	83.804	1.00110.50	С
ATOM	3700	0G	SER B		49.147	69.033	82.911	1.00107.72	0
MOTA	3701	N	GLU B		47.301	70.564	81.547	1.00118.95	N
ATOM	3702	CA	GLU B		46.914	71.010	80.210	1.00121.20	
	3703	C	GLU B		45.749	71.994	80.371	1.00116.49	c c o
MOTA									2
ATOM	3704	0	GLU B		45.803	73.122	79.880	1.00116.10	ŏ
ATOM	3705	CB		103	46.494	69.808	79.342	1.00132.15	c
MOTA	3706	CG	GLU B		46.137	70.133	77.875	1.00144.43	č
ATOM	3707	CD	GLU B	103	47.341	70.170	76.933	1.00147.61	С
ATOM	3708		GLU B		48.046	69.144	76.819	1.00147.17	0
MOTA	3709		GLU B		47.575	71.223	76.297	1.00146.67	ō
ATOM	3710	N	GLY B		44.712	71.570	81.089	1.00110.30	Ň
						72.428	81.309		C
MOTA	3711	CA	GLY B		43.562			1.00105.21	č
MOTA	3712	С	GLY B	104	42.230	71.764	81.005	1.00100.85	C

ATOM	3713	0	GLY B 104	41.174	72.328	81.295	1.00 97.39	0
ATOM	3714	N	ARG B 105	42.273	70.567	80.425	1.00 97.66	N
MOTA	3715	CA	ARG B 105	41.060	69.833	80.080	1.00 96.21	C
ATOM	3716	c.	ARG B 105	40.377	69.316	81.349	1.00 92.31	Ċ
MOTA	3717	ŏ	ARG B 105	40.800	69.632	82.462	1.00 87.06	ō
ATOM	3718	СB	ARG B 105	41.402	68.669	79.133	1.00102.87	Ċ
MOTA	3719	CG	ARG B 105	42.377	69.051	78.008	1.00106.88	č
MOTA	3720	CD	ARG B 105	42.190	68.239	76.722	1.00106.14	č
MOTA	3721	NE	ARG B 105	42.501	66.820	76.871	1.00104.40	й
ATOM	3722	CZ	ARG B 105	42.468	65.940	75.873	1.00102.19	c C
ATOM	3723		ARG B 105	42.139	66.333	74.648	1.00100.44	Ň
ATOM	3724		ARG B 105	42.754	64.664	76.098	1.00 97.55	N
	3725		LEU B 106	39.320	68.527	81.183	1.00 91.24	N
ATOM ATOM	3726	N CA	LEU B 106	38.579	67.979	82.321	1.00 87.88	č
ATOM	3727	CV	LEU B 106	39.041	66.575	82.654	1.00 88.32	č
ATOM	3728	ò	LEU B 106	39.451	65.818	81.777	1.00 91.46	ŏ
		СВ	LEU B 106	37.082	67.957	82.012	1.00 84.87	Č
MOTA MOTA	3729 3730	CG	LEU B 106	36.466	69.345	81.848	1.00 84.82	č
ATOM	3731		LEU B 106	35.157	69.284	81.088	1.00 89.63	č
ATOM	3732		LEU B 106	36.277	69.941	83.226	1.00 88.35	č
ATOM	3733	N	GLN B 107	38.959	66.227	83.927	1.00 84.82	N
ATOM	3734	ÇA	GLN B 107	39.377	64.911	84.358	1.00 80.90	Ĉ
ATOM	3735	Ċ	GLN B 107	38.419	64.301	85.362	1.00 75.49	č
ATOM	3736	ŏ	GLN B 107	38.084	64.911	86.383	1.00 69.14	ŏ
ATOM	3737	СB	GLN B 107	40.786	64.985	84.941	1.00 87.71	č
	3738		GLN B 107	41.100	66.311	85.611	1.00 93.81	č
ATOM		CG	GLN B 107	42.523	66.374	86.126	1.00 94.11	č
ATOM	3739 3740	CD OE1		43.441	65.855	85.495	1.00 95.26	ŏ
ATOM			GLN B 107	42.716	67.023	87.271	1.00 95.42	Ň
ATOM	3741 3742		ALA B 108	37.973	63.090	85.052	1.00 72.11	N N
ATOM	3743	N CA	ALA B 108	37.056	62.378	85.924	1.00 68.89	Ċ
ATOM	3744		ALA B 108	37.704	62.219	87.288	1.00 62.15	č
ATOM ATOM	3745	С 0	ALA B 108	38.926	62.221	87.408	1.00 59.29	ŏ
ATOM	3746	СВ	ALA B 108	36.733	61.010	85.337	1.00 77.88	č
MOTA	3747	N	ASP B 109	36.881	62.088	88.317	1.00 58.74	N
MOTA	3748	CA	ASP B 109	37.390	61.914	89.664	1.00 63.20	Ċ
ATOM	3749	C	ASP B 109	38.417	60.789	89.614	1.00 67.57	č
ATOM	3750	ŏ	ASP B 109	38.121	59.685	89.162	1.00 66.44	ŏ
ATOM	3751	СВ	ASP B 109	36.250	61.550	90.601	1.00 65.57	č
MOTA	3752	CG	ASP B 109	36.661	61.581	92.039	1.00 66.50	Č
	3753		ASP B 109	37.003	62.676	92.529	1.00 65.69	ŏ
MOTA MOTA	3754		ASP B 109	36.646	60.509	92.671	1.00 67.73	ŏ
ATOM	3755	N N	PRO B 110	39.640	61.058	90.083	1.00 71.79	N
	3756	CA	PRO B 110	40.723	60.074	90.086	1.00 74.11	Ċ
MOTA	3757	c	PRO B 110	40.368	58.753	90.758	1.00 75.23	č
ATOM	3758	ò	PRO B 110	40.658	57.678	90.229	1.00 77.28	ō
ATOM		СВ	PRO B 110	41.846	60.802	90.823	1.00 77.75	Ċ
ATOM	3759 3760	CG	PRO B 110	41.548	62.248	90.574	1.00 73.78	Ċ
ATOM	3761	CD	PRO B 110	40.061	62.293	90.763	1.00 72.47	č
ATOM ATOM	3762	N	GLN B 111	39.729	58.847	91.919	1.00 76.43	N
MOTA	3763	CA	GLN B 111	39.361	57.673	92.708	1.00 81.74	Ċ
ATOM	3764	c	GLN B 111	38.176	56.860	92.189	1.00 78.82	Ċ
ATOM	3765	õ	GLN B 111	38.253	55.639	92.087	1.00 77.88	Ō
MOTA	3766	ČВ	GLN B 111	39.070	58.085	94.155	1.00 90.62	Ċ
MOTA	3767	CG	GLN B 111	40.177	58.884	94.838	1.00100.25	Ċ
ATOM	3768	CΩ	GLN B 111	40.321	60.285	94.277	1.00105.52	С
ATOM	3769		GLN B 111	39.362	61.057	94.246	1.00108.75	0
ATOM	3770		GLN B 111	41.524	60.622	93.832	1.00107.34	N
ATOM	3771	N		37.072	57.529	91.887	1.00 76.24	N
ATOM	3772	CA	ARG B 112	35.884	56.840	91.413	1.00 74.45	С
ATOM	3773	C	ARG B 112	35.926	56.489	89.933	1.00 74.18	C
ATOM	3774	ŏ	ARG B 112	35.108	55.701	89.452	1.00 69.32	0
ATOM	3775	ČВ	ARG B 112	34.660	57.688	91.713	1.00 71.64	С
ATOM	3776	CG	ARG B 112	34.638	58.159	93.140	1.00 71.55	С
ATOM	3777	CD	ARG B 112	33.308	58.787	93.519	1.00 75.99	Ċ
ATOM	3778	NE	ARG B 112	33.179	60.207	93.185	1.00 73.11	N
ATOM	3779	CZ	ARG B 112	32.985	60.693	91.962	1.00 71.80	С
MOTA	3780	NH1		32.900	59.882	90.914	1.00 62.74	N
MOTA	3781	NH2		32.850	62.000	91.791	1.00 74.87	N
ATOM	3782	N	PHE B 113	36.873	57.087	89.217	1.00 71.72	N
ATOM	3783	CA	PHE B 113	37.061	56.831	87.790	1.00 68.98	С
ATOM	3784	C	PHE B 113	38.549	56.697	87.486	1.00 72.92	С
ATOM	3785	ō	PHE B 113	39.110	57.476	86.712	1.00 74.24	0
ATOM	3786	СВ	PHE B 113	36.474	57.966	86.948	1.00 57.79	С
MOTA	3787	CG	PHE B 113	34.970	58.046	86.993	1.00 49.73	Ċ
MOTA	3788		PHE B 113	34.178	57.101	86.341	1.00 47.07	c
ATOM	3789	CD2	PHE B 113	34.346	59.075	87.688	1.00 45 23	c
MOTA	3790	CE1	PHE B 113	32.791	57.185	86.381	1.00 45.38	Ċ
ATOM	3791		PHE B 113	32.960	59.164	87.733	1.00 42.04	c
MOTA	3792	CS	PHE B 113	32.181	58.214	87.074	1.00 44.56	C
MOTA	3793	N	PRO B 114	39.207	55.693	88.087	1.00 73.76	N

ATOM	3794	CA	PRO B	114	40.638	55.464	87.873	1.00 73.60	С
MOTA	3795	С	PRO B	114	41.066	55.394	86.410	1.00 74.91	С
MOTA	3796	0	PRO B	114	42.135	55.886	86.051	1.00 77.34	0
ATOM	3797	CB	PRO B	114	40.884	54.148	88.601	1.00 71.20	С
ATOM	3798	CG	PRO B		39.944	54.241	89.745	1.00 67.92	č
									-
MOTA	3799	CD	PRO B		38.681	54.747	89.087	1.00 71.98	С
MOTA	3800	N	HIS B	115	40.236	54.795	85.565	1.00 74.32	N
MOTA	3801	CA	HIS B	115	40.592	54.669	84.160	1.00 83.38	С
								1.00 88.29	č
MOTA	3802	C	HIS B		40.058	55.806	83.284		
ATOM	3803	0	HIS B	115	39.536	55.562	82.193	1.00 93.80	0
MOTA	3804	CB	HIS B	115	40.110	53.314	83.631	1.00 84.54	С
ATOM	3805	ĊĠ	HIS B		40.512	52.154	84.492	1.00 85.82	Č
ATOM	3806		HIS B		41.818	51.916	84.865	1.00 85.46	N
MOTA	3807	CD2	HIS B	115	39.776	51.162	85.049	1.00 86.92	C
ATOM	3808	CE1	HIS B	115	41.869	50.830	85.614	1.00 84.63	С
ATOM	3809		HIS B		40.644	50.354	85.740	1.00 86.43	N
ATOM	3810	N	GLY B		40.211	57.044	83.752	1.00 89.99	N
ATOM	3811	CA	GLY B	116	39.733	58.184	82.989	1.00 93.41	С
ATOM	3812	С	GLY B	116	38.393	57.817	82.393	1.00 94.87	С
ATOM	3813	ŏ	GLY B		37.605	57.146	83.043	1.00 97.79	Ó
MOTA	3814	N	ILE B		38.130	58.232	81.162	1.00 93.63	N
ATOM	3815	CA	ILE B	117	36.866	57.899	80.510	1.00 86.58	С
MOTA	3816	С	ILE B	117	37.137	56.944	79.359	1.00 85.63	С
ATOM	3817	ō	ILE B		36.879	55.751	79:464	1.00 84.99	0
						59.165	79.968	1.00 81.68	č
MOTA	3818	CB	ILE B		36.159				
MOTA	3819		ILE B		35.758	60.075	81.137	1.00 81.37	С
MOTA	3820	CG2	ILE B	117	34.945	58.779	79.133	1.00 76.81	С
ATOM	3821		ILE B		34.826	59.437	82.146	1.00 63.59	С
MOTA	3822		ARG B		37.672	57.489	78.272	1.00 84.43	N
		N							
MOTA	3823	CA	ARG B	118	38.013	56.735	77.076	1.00 90.21	С
MOTA	3824	С	ARG B	118	37.834	55.219	77.175	1.00 91.62	С
ATOM	3825	ō	ARG B		37.005	54.643	76.471	1.00 95.51	0
ATOM			ARG B		39.455	57.038	76.681	1.00 94.90	č
	3826	CB		-					
MOTA	3827	CG	ARG B	118	39.860	56.372	75.396	1.00109.87	C
MOTA	3828	CD	ARG B	118	38.921	56.792	74.285	1.00123.26	С
MOTA	3829	NE	ARG B	118	39.258	56.170	73.011	1.00139.42	N
MOTA	3830	CZ	ARG B		38.651	56.449	71.861	1.00148.72	Ċ
MOTA	3831		ARG B		37.670	57.343	71.826	1.00154.54	N
MOTA	3832	NH2	ARG B	118	39.025	55.839	70.741	1.00155.19	N
MOTA	3833	N	GLN B	119	38.628	54.583	78.039	1.00 91.20	N
ATOM	3834	CA	GLN B		38.598	53.129	78.246	1.00 87.63	C
		_							č
ATOM	3835	С	GLN B		37.222	52.592	78.539	1.00 84.54	
ATOM	3836	0	GLN B	119	36.816	51.558	78.004	1.00 84.72	0
MOTA	3837	CB	GLN B	119	39.511	52.740	79.395	1.00 87.85	С
ATOM	3838	CG	GLN B		40.964	52.985	79.120	1.00 96.11	C
									č
MOTA	3839	CD	GLN B		41.731	53.239	80.387	1.00102.76	
ATOM	3840	OE1	GLN B	119	41.706	52.427	81.314	1.00108.19	0
ATOM	3841	NE2	GLN B	119	42.420	54.374	80.442	1.00107.82	N
ATOM	3842	N	LEU B		36.523	.53.287	79.425	1.00 81.03	N
	3843					52.909	79.798	1.00 81.16	Ċ
ATOM		CA	LEU B		35.172				Č
MOTA	3844	С	LEU B		34.296	52.969	78.551	1.00 79.11	С
MOTA	3845	0	LEU B	120	33.442	52.109	78.337	1.00 80.20	0
MOTA	3846	CB	LEU B	120	34.636	53.870	80.860	1.00 82.48	С
ATOM	3847	CG	LEU B		33.250	53.540	81.410	1.00 82.24	Ċ
									č
MOTA	3848		LEU B		33.240	52.126	81.954	1.00 88.20	C
MOTA	3849	CD2	LEU B		32.891	54.525	82.493	1.00 86.14	C
ATOM	3850	N	ALA B	121	34.524	53.992	77.731	1.00 74.63	N
ATOM	3851	CA	ALA B		33.773	54.175	76.495	1.00 73.56	С
		C				52.990	75.566	1.00 77.77	č
MOTA	3852		ALA B		34.026	52.330	74 220	1.00 75.40	
MOTA	3853	0	ALA B		33.161	52.612	74.778		0
MOTA	3854	CB	ALA B	121	34.188	55.472	75.821	1.00 67.34	С
MOTA	3855	N	ASN B		35.217	52.405	75.667	1.00 80.26	N
ATOM	3856	CA	ASN B		35.573	51.254	74.848	1.00 74.20	С
							75.302	1.00 69.74	č
ATOM	3857	C	ASN B		34.767	50.051			č
MOTA	3858	0	ASN B		34.318	49.246	74.487	1.00 60.92	0
MOTA	3859	CB	ASN B	122	37.058	50.948	74.977	1.00 73.48	С
ATOM	3860	CG	ASN B		37.916	52.101	74.539	1.00 70.43	С
MOTA	3861		ASN B		37.750	52.625	73.440	1.00 66.39	ō
MOTA	3862		ASN B		38.840	52.511	75.397	1.00 77.29	N
MOTA	3863	N	TYR B		34.594	49.926	76.614	1.00 62.16	N
ATOM	3864	CA	TYR B	123	33.814	48.825	77.163	1.00 60.68	c
ATOM	3865	Ċ	TYR B		32.346	49.059	76.814	1.00 57.45	Ċ
		ŏ	TYR B		31.596	48.121	76.532	1.00 65.68	ŏ
MOTA	3866								ŏ
MOTA	3867	CB	TYR B		33.993	48.738	78.685	1.00 62.55	С
MOTA	3868	CG	TYR B	123	33.158	47.648	79.333	1.00 75.95	С
MOTA	3869	CD1	TYR B		32.736	46.533	78.596	1.00 84.78	С
MOTA	3870		TYR B		32.787	47.725	80.678	1.00 76.33	Č
ATOM	3871	CEI			31.959	45.526	79.174	1.00 88.63	0 0 0 0
									c
MOTA	3872		TYR B		32.011	46.717	81.272	1.00 84.64	Č
MOTA	3873	CZ	TYR B		31.599	45.622	80.512	1.00 90.58	Ç
MOTA	3874	ОН	TYR B	123	30.823	44.629	81.079	1.00 91.09	0

MOTA	3875	N	VAL B	124	31.945	50.325	76.835	1.00 47.96	N
			VAL B						
MOTA	3876	CA			30.579	50.702	76.495	1.00 40.47	Ç
MOTA	3877	С	VAL B		30.385	50.405	75.022	1.00 36.98	С
MOTA	3878	0	VAL B	124	29.422	49.741	74.635	1.00 32.23	0
MOTA	387 <del>9</del>	CB	VAL B	124	30.333	52.209	76.725	1.00 41.05	С
ATOM	3880	CG1	VAL B	124	28.959	52.603	76.192	1.00 57.93	С
MOTA	3881		VAL B		30.449	52.535	78.211	1.00 38.22	č
MOTA	3882	N	HIS B		31.317	50.904	74.213	1.00 37.79	N
MOTA	3883	CA	HIS B	-	31.289	50.699	72.770	1.00 44.03	С
MOTA	3884	C	HIS B	125	31.390	49.215	72.427	1.00 49.90	С
MOTA	3885	0	HIS B	125	30.774	48.750	71.466	1.00 49.08	0
ATOM	3886	CB	HIS B		32.437	51.468	72.123	1.00 51.70	Č
ATOM	3887	ĊĠ	HIS B		32.200	52.941	72.049	1.00 58.07	č
			HIS B		31.181				
ATOM	3888					53.488	71.301	1.00 67.26	N
MOTA	3889		HIS B		32.852	53.983	72.617	1.00 54.50	Ç
MOTA	3890		HIS B		31.216	54.805	71.410	1.00 63.10	c
MOTA	3891	NE2	HIS B	125	32.221	55.131	72.203	1.00 53.80	N
MOTA	3892	N	SER B	126	32.173	48.488	73.224	1.00 53.77	N
ATOM	3893	CA	SER B	126	32.365	47.058	73.033	1.00 53.79	С
MOTA	3894	C	SER B		31.012	46.368	73.086	1.00 50.23	Ċ
ATOM	3895	ŏ	SER B		30.654	45.625	72.177	1.00 48.90	ŏ
					33.344		74.071	1.00 55.88	č
ATOM	3896	CB	SER B			46.506			Č
MOTA	3897	OG	SER B		33.593	45.128	73.854	1.00 60.00	0
MOTA	3898	N	LYS B		30.259	46.621	74.152	1.00 48.17	N
MOTA	3899	CA	LYS B		28.936	46.022	74.326	1.00 43.19	С
ATOM	3900	С	LYS B	127	27.983	46.468	73.215	1.00 41.85	С
ATOM	3901	0	LYS B	127	26.850	45.981	73.122	1.00 42.05	0
ATOM	3902	СВ	LYS B		28.363	46.395	75.706	1.00 40.95	č
ATOM	3903	CG	LYS B		29.061	45.730	76.897	1.00 52.33	č
									Č
ATOM	3904	CD	LYS B		28.661	44.257	77.061	1.00 62.13	C
ATOM	3905	CE	LYS B		29.138	43.369	75.907	1.00 70.05	C
MOTA	3906	NZ	LYS B		28.684	41.956	76.050	1.00 77.94	N
ATOM	3907	N	GLY B	128	28.455	47.379	72.364	1.00 40.27	N
ATOM	3908	CA	GLY B	128	27.620	47.865	71.280	1.00 40.59	С
ATOM	3909	C	GLY B		26.784	49.080	71.644	1.00 40.05	С
ATOM	3910	ŏ	GLY B		25.936	49.520	70.860	1.00 36.76	Ō
ATOM	3911	N	LEU B		27.022	49.633	72.829	1.00 37.74	N
ATOM	3912	CA	LEU B		26.267	50.795	73.275	1.00 37.57	c
							73.030	1.00 40.12	č
ATOM	3913	C	LEU B		26.992	52.101			_
ATOM	3914	0	LEU B		28.150	52.119	72.608	1.00 42.48	0
ATOM	3915	CB	LEU B		25.947	50.663	74.752	1.00 39.84	Č
ATOM	3916	CG	LEU B	129	25.336	49.290	75.001	1.00 48.99	0000
MOTA	3917	CD1	LEU B	129	25.295	48.994	76.497	1.00 57.24	¢
MOTA	3918	CD2	LEU B	129	23.953	49.241	74.365	1.00 51.52	С
MOTA	3919	N	LYS B	130	26.289	53.195	73.296	1.00 42.18	N
ATOM	3920	CA	LYS B		26.840	54.526	73.117	1.00 44.52	С
ATOM	3921	С	LYS B		26.832	55.227	74.471	1.00 43.45	00000
ATOM	3922	ŏ	LYS B		25.874	55.112	75.241	1.00 45.86	0
ATOM	3923	ČВ	LYS B		26.014	55.290	72.071	1.00 48.00	č
	3924	ČĞ	LYS B		25.843	54.502	70.758	1.00 57.40	č
ATOM								1.00 60.91	č
MOTA	3925	CD	LYS B		25.623	55.398	69.539		c
MOTA	3926	CE	LYS B		25.521	54.589	68.242	1.00 69.51	
ATOM	3927	NZ	LYS B		26.745	53.785	67.943	1.00 75.65	N
ATOM	3928	N	LEU B	131	27.919	55.934	74.763	1.00 38.94	N
ATOM	3929	CA	LEU B	131	28.068	56.641	76.033	1.00 35.19	C
ATOM	3930	С	LEU B		27.713	58.119	75.977	1.00 35.30	Ċ
ATOM	3931	ō	LEU B		27.893	58.783	74.950	1.00 34.57	0
ATOM	3932	ČВ	LEU B		29.503	56.511	76.545	1.00 34.64	Ċ
	3933				29.895			1.00 35.78	č
ATOM		CG							
ATOM	3934		LEU B		29.198	57.191	78.928	1.00 40.68	C
ATOM	3935	CD2	LEU B		31.411	57.551	77.794	1.00 40.94	C
ATOM	3936	N	GLY B	132 -	27.226	58.620	77.110	1.00 32.17	N
MOTA	3937	CA	GLY B	132	26.850	60.015	77.225	1.00 34.16	С
MOTA	3938	С	GLY B	132	27.376	60.621	78.51 <b>1</b>	1.00 32.84	С
MOTA	3939	0	GLY B	132	27.355	59.989	79.565	1.00 25.66	0
ATOM	3940	N	ILE B		27.829	61.863	78.433	1.00 32.91	N
ATOM	3941	CA	ILE B		28.370	62.520	79.601	1.00 35.91	С
ATOM	3942	c	ILE B		27.638	63.813	79.908	1.00 36.56	c c
MOTA	3943	ŏ	ILE B		27.031	64.414	79.037	1.00 34.58	ñ
MOTA	3944	ĊВ	ILE B		29.850	62.811	79.386	1.00 38.58	ř
MOTA	3945				30.493	63.256	80.700	1.00 34.22	5
			ILE B			63.829	78.269		5
MOTA	3946		ILE B		30.012			1.00 39.58	0 C C N
MOTA	3947		ILE B		30.528	62.165	81.763	1.00 29.09	
ATOM	3948	N	TYR B		27.715	64.236	81.158	1.00 39.58	N
MOTA	3949	CA	TYR B		27.060	65.449	81.634	1.00 40.75	Č
MOTA	3950	C	TYR B		28.064	66.602	81.702	1.00 44.66	С
MOTA	3951	0	TYR B		29.239	66.384	81.981	1.00 47.96	0
ATOM	3952	CB	TYR B		26.476	65.159	83.021	1.00 42.20	С
ATOM	3953	CG	TYR B		25.949	66.352	83.771	1.00 40.59	00000
ATOM	3954		TYR B		24.587	66.497	84.019	1.00 48.82	
ATOM	3955		TYR B		26.816	67.317	84.271	1.00 42.81	С
			_						

MOTA	3956	CEl	TYR	R	134	24.105	67.572	84.754	1.00	54 88	c
ATOM	3957	CE2	TYR		134	26.349	68.392	85.000	1.00		č
MOTA	3958	CZ	TYR			24.995	68.517	85.242	1.00		č
ATOM	3959	ОН	TYR			24.547	69.590	85.983	1.00		ō
ATOM	3960	N	ALA			27.606	67.824	81.450	1.00 9	50.40	N
ATOM	3961	CA	ALA	В	135	28.483	68.994	81.505	1.00	53.10	С
ATOM	3962	С	ALA	В	135	27.645	70.196	81.863	1.00		C
ATOM	3963	0	ALA			26.420	70.109	81.852	1.00		0
MOTA	3964	СВ	ALA			29.150	69.216	80.166	1.00		C
MOTA	3965	N	ASP			28.286	71.317	82.182	1.00 4		N
ATOM	3966	CA	ASP			27.517	72.514	82.516	1.00		C
ATOM ATOM	3967 3968	C	ASP ASP			28.057 29.253	73.772 74.053	81.870 81.926	1.00		0
ATOM	3969	O CB	ASP			27.439	72.738	84.023	1.00		č
ATOM	3970	CG	ASP			26.253	73.613	84.417	1.00		č
ATOM	3971		ASP			26.169	74.774	83.953	1.00		ō
ATOM	3972	OD2	ASP			25.403	73.128	85.194	1.00		0
ATOM	3973	N	VAL	В	137	27.140	74.538	81.285	1.00 5	50.15	N
ATOM	3974	CA	VAL	В	137	27.462	75.772	80.570	1.00		C
MOTA	3975	С	VAL			28.094	76.859	81.424	1.00		C
MOTA	3976	0	VAL			28.979	77.579	80.958	1.00		0
ATOM	3977	CB	VAL			26.203	76.369	79.905 80.992	1.00 1		C C
ATOM	3978 3979		VAL VAL			25.276 26.602	76.941 77.423	78.899	1.00		Ċ
ATOM ATOM	3980	N N	GLY			27.636	76.974	82.665	1.00		N
ATOM	3981	CA	GLY			28.157	77.997	83.548	1.00		Ċ
ATOM	3982	c	GLY			29.502	77.752	84.198	1.00		Ċ
ATOM	3983	0	GLY			30.329	76.994	83.696	1.00	81.96	0
MOTA	3984	N	ASN			29.737	78.432	85.316	1.00		N
MOTA	3985	CA	ASN			30.986	78.263	86.044	1.00		C
MOTA	3986	Ċ	ASN			30.985	76.941	86.823	1.00		C
ATOM	3987	0	ASN			32.049 31.247	76.426 79.471	87.180 86.970	1.00		C C
ATOM ATOM	3988 3989	CB CG	ASN ASN			31.905	80.641	86.235	1.001		Ċ
ATOM	3990		ASN			32.837	80.436	85.454	1.001		ō
ATOM	3991		ASN			31.443	81.863	86.494	1.001		N
ATOM	3992	N	LY\$			29.795	76.375	87.047	1.00	66.89	N
ATOM	3993	CA	LYS	В	140	29.566	75.100	87.772	1.00		С
ATOM	3994	С	LYS			28.493	74.240	87.305	1.00		C
ATOM	3995	0	LYS			27.529	74.744	86.725	1.00		0
ATOM	3996	CB	LYS			29.487	75.337	89.270	1.00		C
ATOM	3997	CG	LYS			30.731 30.379	75.673 75.977	90.030 91.473	1.00		c
ATOM ATOM	3998 3999	CE	LYS LYS		140	31.574	76.508	92.230		72.22	č
ATOM	4000	NZ	LYS			31.204	77.024	93.572		67.74	N
ATOM	4001	N	THR			28.591	72.936	87.556		44.73	N
ATOM	4002	CA	THR			27.522	72.003	87.213		40.60	С
MOTA	4003	С	THR			26.572	72.238	88.380		39.67	C
ATOM	4004	0	THR			26.978	72.853	89.368	1.00		0
ATOM	4005	CB	THR			28.009	70.541	87.265 88.621		41.32 33.01	C 0
ATOM	4006	OG1	THR			28.330 29.252	70.175 70.376	86.424		55.06	č
MOTA MOTA	4007 4008	CG2 N	CYS			25.323	71.788	88.293	1.00		N
ATOM	4009	CA	CYS			24.431	72.027	89.419		54.48	Ċ
ATOM	4010	Ċ	CYS			25.013	71.360	90.654		55.63	С
ATOM	4011	0	CYS	В	142	24.552	71.590	91.763	1.00	57.67	0
MOTA	4012	CB	CYS			23.010	71.502	89.162		64.07	C
ATOM	4013	SG	CYS			22.094	72.315	87.816	1.00		S
ATOM	4014	N	ALA			26.046	70.546	90.458	1.00		Й.
ATOM ATOM	4015	CA	ALA			26.692 27.738	69.843 70.688	91.566	1.00		Ċ
ATOM	4016 4017	C 0	ALA ALA			27.992	70.485	93.476	1.00		ō
ATOM	4018	ĊВ	ALA			27.335	68.574	91.060	1.00		Ċ
ATOM	4019	N	GLY			28.335	71.638	91.579	1.00	75.69	N
MOTA	4020	CA	GLY	В	144	29.349	72.483	92.182	1.00		C
MOTA	4021	С	GLY			30.660	72.221	91.493	1.00		C
MOTA	4022	0	GLY			31.612	72.984	91.612	1.00		0
ATOM	4023	N C	PHE			30.710 31.918	71.120 70.766	90.763 90.043	1.00		N C
ATOM ATOM	4024 4025	CA C	PHE			32.186	71.651	88.847	1.00		č
ATOM	4026	ò	PHE			31.343	72.446	88.459	1.00		0
ATOM	4027	СВ	PHE			31.835	69.290	89.625	1.00		С
ATOM	4028	CG	PHE	В	145	31.877	68.341	90.769	1.00		С
MOTA	4029		PHE			33.013	68.230	91.555	1.00		C
ATOM	4030		PHE			30.762	67.581	91.078	1.00		C
ATOM	4031		PHE			33.041 30.781	67.351 66.704	92.626 92.140	1.00		C C C
MOTA MOTA	4032 4033	CZ	PHE			31.928	66.601	92.923	1.00		č
ATOM	4034	N	PRO			33.391	71.547	88.281	1.00		N
ATOM	4035	CA	PRO			33.805	72.326	87.116	1.00	72.84	C
MOTA	4036	С	PRO	В	146	32.679	72.710	86.171	1.00	74.18	С

MOTA	4037	0	PRO	В	146	31.763	71.937	85.950	1.00 7	9.02	0
ATOM	4038	СB	PRO			34.812		86.450	1.00 7		č
ATOM	4039	CG	PRO			35.519	71.406	87.622	1.00 6		č
	4040	CD	PRO			34.427	70.851		1.00 7		č
MOTA	4041		GLY				70.561	88.640	1.00 6		
MOTA		N				32.746	73.935	85.668			N
ATOM	4042	CA	GLY			31.738	74.417	84.761	1.00 6		C
MOTA	4043	C	GLY			32.109	74.050	83.344	1.00 6		ç
ATOM	4044	0	GLY			32.238	72.877	83.002	1.00 6		0
MOTA	4045	N	SER	В	148	32.313	75.061	82.513	1.00 5	9.34	N
MOTA	4046	CA	SER	В	148	32.684	74.856	81.114	1.00 6	0.60	С
MOTA	4047	С	SER	В	148	32.804	76.228	80.474	1.00 6	3.91	С
MOTA	4048	0	SER	В	148	33.196	76.349	79.311	1.00 6	0.85	0
MOTA	4049	CB	SER			31.623	74.024	80.391	1.00 5		Ċ
MOTA	4050	OG	SER			31.821	72.637	80.589	1.00 5		0
MOTA	4051	N	PHE			32.480	77.257	81.258	1.00 6		N
ATOM	4052	ÇA	PHE			32.538	78.634	80.789	1.00 7		C
ATOM	4053	Ċ	PHE			33.915	78.948	80.225	1.00 7		č
	4054	ŏ	PHE			34.918	78.815	80.918	1.00 6		õ
MOTA			PHE						1.00 7		000000
MOTA	4055	CB				32.208	79.591	81.933			Č
MOTA	4056	CG	PHE			32.067	81.011	81.502	1.00 8		Č
MOTA	4057		PHE			31.299	81.327	80.396	1.00 8		Č
MOTA	4058		PHE			32.679	82.034	82.209	1.00 8		C
MOTA	4059		PHE			31.148	82.644	79.989	1.00 8		Ç
MOTA	4060		PHE			32.533	83.359	81.809	1.00 8		С
MOTA	4061	CZ	PHE			31.765	83.664	80.703	1.00 8		С
MOTA	4062	N	GLY			33.957	79.377	78.968	1.00 7		N
ATOM	4063	CA	GLY	В	150	35.227	79.687	78.337	1.00 7	6.77	С
MOTA	4064	С	GLY			36.113	78.455	78.280	1.00 8		С
ATOM	4065	0	GLY			37.287	78.509	78.637	1.00 8	7.49	0
MOTA	4066	N	TYR			35.542	77.340	77.840	1.00 8		N
MOTA	4067	CA	TYR			36.266	76.084	77.740	1.00 7		c c o
MOTA	4068	С	TYR			35.574	75.220	76.698	1.00 7	2.56	С
ATOM	4069	ō	TYR			36.126	74.218	76.234	1.00 6		0
ATOM	4070	СB	TYR			36.246	75.347	79.079	1.00 8		С
ATOM	4071	CG	TYR			37.105	75.933	80.175	1.00 8		Č
MOTA	4072		TYR			38.496	75.857	80.116	1.00 9		Ċ
ATOM	4073		TYR			36.526	76.511	81.303	1.00 9		č
MOTA	4074		TYR			39.285	76.335	81.160	1.00 9		
						37.308	76.991	82.347	1.00 9		. č
MOTA	4075		TYR					82.270	1.00 9		č
ATOM	4076	CZ	TYR			38.684	76.900		1.00 9		
MOTA	4077	ОН	TYR			39.457	77.376	83.301			N
MOTA	4078	N	TYR			34.358	75.623	76.340	1.00 7		И
ATOM	4079	CA	TYR			33.533	74.908	75.365	1.00 6		Č
ATOM	4080	C	TYR			34.365	74.161	74.352	1.00 6		Ċ
MOTA	4081	0	TYR			34.414	72.933	74.371	1.00 7		0
MOTA	4082	CB	TYR			32.604	75.880	74.639	1.00 6		Č
MOTA	4083	CG	TYR	В	152	31.750	76.702	75.583	1.00 6		С
MOTA	4084	CD1	TYR	В	152	30.984	76.088	76.580	1.00 6		00000000000
ATOM	4085	CD2	TYR	В	152	31.719	78.095	75.494	1.00 6	2.52	C
ATOM	4086	CE1	TYR	В	152	30.212	76.848	77.469	1.00 7	0.44	С
MOTA	4087	CE2	TYR	В	152	30.949	78.863	76.375	1.00 6	6.13	С
MOTA	4088	CZ	TYR	В	152	30.199	78.239	77.361	1.00 6	6.32	С
MOTA	4089	ОН	TYR	В	152	29.452	79.005	78.239	1.00 5	2.68	0
MOTA	4090	N	ASP			35.026	74.900	73.471	1.00 7	0.05	N
MOTA	4091	CA	ASP			35.860	74.267	72.459	1.00 7	7.32	c c o
ATOM	4092	Ċ			153-	36.745	73.165	73.063	1.00 7	6.38	С
ATOM	4093	ŏ	ASP			36.656	72.005	72.654	1.00 8	0.52	0
ATOM	4094	СВ	ASP			36.724	75.317	71.752	1.00 B		С
MOTA	4095	CG	ASP			35.897	76.312	70.953	1.00 8		C
ATOM	4096		ASP			35.091	75.877	70.099	1.00 7		0
MOTA	4097		ASP			36.063	77.530	71.177	1.00 9		0
ATOM	4098	N N	ILE			37.590	73.522	74.031	1.00 7		N
MOTA	4099	CA	ILE			38.461	72.535	74.662	1.00 6		Ċ
			ILE			37.667	71.296	75.040	1.00 6		č
ATOM	4100	C				37.888	70.204	74.502	1.00 5		ŏ
ATOM	4101	0	ILE			39.100	73.077	75.933	1.00 6		č
MOTA	4102	CB	ILE				74.212	75.590	1.00 6		Č
MOTA	4103		ILE			40.058					c
MOTA	4104		ILE			39.843	71.972	76.639	1.00 6		c
ATOM	4105		ILE			40.717	74.829	76.800	1.00 6		
MOTA	4106	N	ASP			36.739	71.475	75.975	1.00 6		N
ATOM	4107	CA	ASP			35.888.	70.384	76.436	1.00 6		c
MOTA	4108	C	ASP			35.354	69.547	75.265	1.00 5		c
ATOM	4109	0			155	35.524	68.328	75.223	1.00 5		0
MOTA	4110	CB	ASP			34.724	70.951	77.254	1.00 6		C
ATOM	4111	CG			155	35.190	71.612	78.532	1.00 7		C
ATOM	4112		ASP			34.337	72.135	79.280	1.00 7		0
ATOM	4113		ASP			36.417	71.604	78.785	1.00 7		0
MOTA	4114	N			156	34.717	70.206	74.308	1.00 5		N
MOTA	4115	CA			156	34.183	69.499	73.162	1.00 6		C
MOTA	4116	С			156	35.229	68.523	72.644	1.00 6		C
MOTA	4117	0	ALA	В	156	35.047	67.314	72.730	1.00 7	10.40	0

ATOM	4118	CB	ALA B 156	33.796	70.486	72.072	1.00 70.53	С
ATOM	4119	N	GLN B 157		69.049	72.123	1.00 69.39	N
MOTA	4120	CA	GLN B 157		68.198	71.590	1.00 69.42	Č
MOTA	4121	С	GLN B 157		67.092	72.591	1.00 64.80	С
MOTA	4122	0	GLN B 157	37.807	65.922	72.224	1.00 67.28	0
MOTA	4123	CB	GLN B 157	38.660	69.011	71.326	1.00 76.41	С
ATOM	4124	CG	GLN B 157		68.627	70.038	1.00 86.50	C
	4125		GLN B 157		68.880			č
MOTA		CD				68.826	1.00 89.81	
MOTA	4126	OE1	GLN B 157		70.023	68.534	1.00 87.85	0
MOTA	4127	NE2	GLN B 157	38.120	67.813	68.115	1.00 87.49	N
ATOM	4128	N	THR B 158	37.792	67.470	73.859	1.00 55.40	N
ATOM	4129	CA	THR B 158		66.502	74.904	1.00 54.68	Ĉ
ATOM	4130	C	THR B 158		65.310	74.725	1.00 58.74	C
MOTA	4131	0	THR B 158		64.237	74.305	1.00 62.62	0
MOTA	4132	CB	THR B 158	37.829	67.111	76.297	1.00 50.56	С
ATOM	4133	OG1	THR B 158	38.733	68.206	76.490	1.00 55.92	0
ATOM	4134		THR B 158		66.066	77.378	1.00 46.19	С
ATOM	4135	N	PHE B 159		65.507	75.035	1.00 59.45	N
MOTA	4136	CA	PHE B 159		64.451	74.905	1.00 57.19	C
MOTA	4137	С	PHE B 159	34.946	63.760	73.552	1.00 56.03	С
ATOM	4138	0	PHE B 159	34.990	62.531	73.468	1.00 50.18	0
ATOM	4139	CB	PHE B 159	33.407	65.023	74.972	1.00 55.49	С
ATOM	4140	CG	PHE B 159		65.862	76.173	1.00 54.45	Ċ
								č
ATOM	4141		PHE B 159		65.308	77.440	1.00 54.51	c
MOTA	4142		PHE B 159		67.212	76.030	1.00 54.14	Č
MOTA	4143		PHE B 159		66.087	78.555	1.00 54.81	Ċ
ATOM	4144	CE2	PHE B 159	32.532	68.000	77.134	1.00 54.93	C
ATOM	4145	CZ	PHE B 159		67.439	78.403	1.00 51.81	č
ATOM	4146	N	ALA B 160		64.570	72.495	1.00 58.19	N
								14
MOTA	4147	CA	ALA B 160		64.071	71.134	1.00 66.53	Ċ
MOTA	4148	С	ALA B 160		63.050	71.061	1.00 73.96	С
MOTA	4149	0	ALA B 160	36.047	62.001	70.425	1.00 80.27	0
MOTA	4150	CB	ALA B 160	35.341	65.224	70.178	1.00 64.98	С
ATOM	4151	N	ASP B 161		63.372	71.716	1.00 79.36	N
					62.491	71.751	1.00 81.74	Ĉ
ATOM	4152	CA	ASP B 161					Č
MOTA	4153	С	ASP B 161		61.253	72.563	1.00 79.93	C
MOTA	4154	0	ASP B 161	38.298	60.122	72.099	1.00 76.06	0
MOTA	4155	CB	ASP B 161	39.643	63.206	72.377	1.00 87.77	С
ATOM	4156	CG	ASP B 161		63.762	71.340	1.00 94.92	С
ATOM	4157		ASP B 161		64.578	70.501	1.00 97.76	Ö
								ŏ
ATOM	4158		ASP B 161		63.375	71.362	1.00101.23	
MOTA	4159	N	TRP B 162		61.490	73.778	1.00 78.90	N
ATOM	4160	CA	TRP B 162	37.286	60.435	74.718	1.00 77.64	C
ATOM	4161	С	TRP B 162	36.407	59.352	74.117	1.00 76.70	С
ATOM	4162	ō	TRP B 162		58.234	74.634	1.00 74.99	0
						75.924	1.00 80.13	č
ATOM	4163	CB	TRP B 162		61.043			
MOTA	4164	ÇG	TRP B 162		61.751	76.849	1.00 85.52	С
ATOM	4165	CD1	TRP B 162	38.852	61.892	76.726	1.00 88.24	С
ATOM	4166	CD2	TRP B 162	37.142	62.371	78.081	1.00 84.79	C
ATOM	4167		TRP B 162		62.559	77.813	1.00 87.19	N
ATOM	4168		TRP B 162		62.865	78.662	1.00 82.08	C
							1.00 87.25	č
ATOM	4169		TRP B 162		62.555	78.754		
MOTA	4170	CZ2	TRP B 162		63.535	79.887	1.00 77.70	Ċ
ATOM	4171	CZ3	TRP B 162	35.942	63.220	79.971	1.00 88.61	С
ATOM	4172	CH2	TRP B 162	37.142	63.702	80.526	1.00 80.08	С
ATOM	4173	N	GLY B 163		59.699	73.027	1.00 75.99	N
ATOM	4174	CA	GLY B 163		58.762	72.350	1.00 72.23	Ċ
								č
ATOM	4175	C	GLY B 163		58.855	72.810	1.00 67.68	
ATOM	4176	0	GLY B 163	32.709	57.844	72.893	1.00 71.72	0
MOTA	4177	N	VAL B 164		60.068	73.110	1.00 59.84	Ŋ
ATOM	4178	CA	VAL B 164	31.580	60.280	73.571	1.00 54.18	C
ATOM	4179	C	VAL B 164		60.240	72.426	1.00 56.41	С
ATOM	4180	ŏ	VAL B 164		60.513	71.265	1.00 61.84	0
						74.278	1.00 52.19	č
ATOM	4181	CB	VAL B 164		61.630			c
ATOM	4182		VAL B 164		61.743	74.869	1.00 54.51	Č
ATOM	4183	CG2	VAL B 164		61.775	75.357	1.00 57.52	Ċ
ATOM	4184	N	ASP B 165	29.342	59.898	72.760	1.00 56.55	N
ATOM	4185	CA	ASP B 165		59.829	71.756	1.00 56.28	С
ATOM	4186	c	ASP B 165		60.794	72.079	1.00 52.94	Č
					61.164	71.197	1.00 55.38	ŏ
MOTA	4187	0	ASP B 169				1.00 54.55	č
ATOM	4188	CB	ASP B 169		58.419	71.677		ř
MOTA	4189	CG	ASP B 165		57.377	71.360	1.00 59.13	C
ATOM	4190	OD1	ASP B 169	29.424	57.484	70.301	1.00 64.14	0
ATOM	4191		ASP B 169		56.448	72.179	1.00 62.71	0
ATOM	4192	N	LEU B 166		61.211	73.335	1.00 41.96	N
MOTA	4193	CA	LEU B 166		62.115	73.726	1.00 34.65	Ċ
						74.896		č
MOTA	4194	Ç	LEU B 166		63.017		1.00 36.39	Č
MOTA	4195	0	LEU B 166		62.579	75.853	1.00 34.13	ō
ATOM	4196	CB	LEU B 166		61.288	74.067	1.00 36.44	0 C C
MOTA	4197	CG	LEU B 166		61.955	74.604	1.00 40.91	
ATOM	4198		LEU B 166		60.921	74.633	1.00 48.27	С
						_		_

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MOTA	4199	CD2	LEU	B 166	23.718	62.530	75.999	1.00 39.68	С
MOTA	4200	N	LEU	B 167	25.939	64.275	74.822	1.00 38.87	N
MOTA	4201	CA	LEU	B 167	26.211	65.256	75.878	1.00 37.54	С
MOTA	4202	Ċ	LEU	B 167	24.970	65.902	76.508	1.00 39.34	С
MOTA	4203	0	LEU	B 167	24.131	66.474	75.812	1.00 34.28	0
MOTA	4204	CB		B 167	27.103	66.383	75.339	1.00 39.21	С
MOTA	4205	CG		B 167	27.327	67.493	76.372	1.00 43.73	С
MOTA	4206	CD1	LEU	B 167	28.163	66.910	77.477	1.00 38.20	С
MOTA	4207	CD2	LEU	B 167	28.017	68.711	75.769	1.00 43.30	С
MOTA	4208	N		B 168	24.854	65.815	77.824	1.00 45.42	N
MOTA	4209	CA	LYS	B 168	23.739	66.459	78.502	1.00 47.97	С
MOTA	4210	С	LY\$	B 168	24.297	67.786	78.993	1.00 48.67	С
MOTA	4211	0		B 168	25.029	67.840	79.994	1.00 53.51	0
MOTA	4212	CB		B 168	23.238	65.632	79.701	1.00 56.24	Ç
MOTA	4213	CG		B 168	22.174	66.356	80.567	1.00 58.69	C
MOTA	4214	CD		B 168	21.531	65.474	81.651	1.00 49.99	C
MOTA	4215	CE		B 168	20.366	66.183	82.344	1.00 40.97	C
MOTA	4216	NZ		B 168	19.583	65.271	83.228	1.00 32.80	N
MOTA	4217	N		B 169	23.968	68.860	78.292	1.00 45.83	N
MOTA	4218	CA		B 169	24.479	70.154	78.703	1.00 51.92	C
MOTA	4219	C		B 169	23.537	70.897	79.656	1.00 51.04	C
MOTA	4220	0		B 169	22.569	71.531	79.238	1.00 52.94	0
MOTA	4221	CB		B 169	24.779	70.998	77.470	1.00 61.58	c
MOTA	4222	CG		B 169	25.913	71.948	77.665 78.199	1.00 70.42 1.00 72.62	C
MOTA	4223			B 169	27.112	71.500 73.286	77.319	1.00 74.80	Č
ATOM	4224			B 169	25.786			1.00 75.63	c c
ATOM	4225			B 169 B 169	28.168 26.837	72.369 74.165	78.388 77.504	1.00 74.97	c
MOTA MOTA	4226 4227	CZ		B 169	28.033	73.706	78.040	1.00 78.45	č
ATOM	4227	N N		B 170	23.834	70.801	80.946	1.00 49.60	N
ATOM	4229	CA		B 170	23.043	71.440	81.989	1.00 48.02	Ċ
ATOM	4230	c		B 170	23.400	72.925	82.095	1.00 47.03	Ċ
ATOM	4231	ŏ		B 170	24.450	73.344	81.642	1.00 44.69	Ó
ATOM	4232	ČВ		B 170	23.313	70.723	83.315	1.00 50.49	С
ATOM	4233	ÇG		B 170	22.397	71.171	84.424	1.00 53.05	С
ATOM	4234			B 170	21.655	72.153	84.243	1.00 51.74	0
ATOM	4235			B 170	22.421	70.538	85.493	1.00 55.89	0
ATOM	4236	N	GLY	B 171	22.529	73.720	82.702	1.00 48.16	N
ATOM	4237	CA	GLY	B 171	22.803	75.142	82.827	1.00 52.27	С
MOTA	4238	С	GLY	B 171	22.651	75.797	84.196	1.00 51.81	С
MOTA	4239	0	GLY	B 171	21.801	76.667	84.401	1.00 48.95	0
MOTA	4240	N	CYS	B 172	23.486	75.393	85.141	1.00 56.08	N
MOTA	4241	CA	CYS	B 172	23.446	75.986	86.467	1.00 59.63	С
ATOM	4242	С		B 172	24.604	76.961	86.546	1.00 65.06	C
MOTA	4243	0		B 172	25.689	76.671	86.041	1.00 65.52	0
MOTA	4244	CB		B 172	23.627	74.920	87.551	1.00 62.77	C
MOTA	4245	SG		B 172	22.108	74.277	88.318	1.00 73.86	S
MOTA	4246	N		B 173	24.374	78.119	87.154	1.00 69.24	N C
ATOM	4247	CA		B 173	25.440	79.102	87.330	1.00 72.13 1.00 78.33	c
MOTA	4248 4249	C		B 173 B 173	25.908 26.773	79.893 79.439	86.103 85.358	1.00 79.20	ŏ
MOTA		O CB		B 173	26.674	78.422	87.944	1.00 68.03	č
MOTA	4250 4251	CG		B 173	26.424	77.709	89.252	1.00 71.50	č
ATOM ATOM	4252			B 173	25.960	78.405	90.367	1.00 73.51	č
ATOM	4253			B 173	26.663	76.345	89.380	1.00 72.27	č
ATOM	4254			B 173	25.740	77.763	91.586	1.00 70.46	С
ATOM	4255			B 173	26.450	75.687	90.593	1.00 70.67	С
ATOM	4256	CZ		B 173	25.985	76.404	91.695	1.00 66.70	С
ATOM	4257	ОН		B 173	25.752	75.776		1.00 51.73	0
ATOM	4258	N		B 174	25.351	81.083	85.911	1.00 85.92	N
ATOM	4259	CA	CYS	B 174	25.755	81.959	84.810	1.00 97.17	Ç
ATOM	4260	С		B 174	25.051	83.306	84.934	1.00106.31	C
ATOM	4261	0	CYS	B 174	23.869	83.370	85.273	1.00100.13	0
MOTA	4262	CB		B 174	25.454	81.314	83.455	1.00 93.86	C
MOTA	4263	SG		B 174	23.775	80.749	83.264	1.00 93.51	S
ATOM	4264	N		B 175	25.797	84.378	84.668	1.00116.19	N
ATOM	4265	CA		B 175	25.282	85.746	84.761	1.00119.63	C
MOTA	4266	C		B 175	23.905	85.952	84.109	1.00118.97	c
MOTA	4267	0		B 175	22.871	85.756	84.752	1.00116.40	0 C
MOTA	4268	CB		B 175	26.291	86.742 87.015	84.157 85.071	1.00119.42 1.00119.29	c
MOTA	4269 4270	CC		B 175 B 175	27.492 27.288	87.476	86.216	1.00115.29	ō
MOTA MOTA	4271			B 175	28.644	86.783	84.639	1.00117.38	ŏ
ATOM	4272	N		B 176	23.888	86.352	82.839	1.00117.33	N
MOTA	4273	CA		B 176	22.627	86.585	82.138	1.00115.27	č
ATOM	4274	C		B 176	22.452	85.648	80.949	1.00111.67	ċ
ATOM	4275	ŏ		B 176	23.407	84.986	80.530	1.00109.69	0
ATOM	4276	ČВ		B 176	22.560	88.028	81.652	1.00117.63	С
MOTA	4277	ŌĞ		В 176	23.527	88.260	80.644	1.00114.24	0
MOTA	4278	N		B 177	21.234	85.593	80.404	1.00108.85	N
MOTA	4279	CA	LEU	B 177	20.963	84.721	79.261	1.00112.78	С

ATOM 4281 O LEU B 177										
ATOM 4281 O LEU B 177	MOTA	4280	C	LEU I	R 177	22 028	84 932	78 207	3 00114 90	С
ATOM 4282 CB LEU B 177										ō
ATOM 4283 CG LEU B 177										
ATOM 4284 CDI LEU B 177										Ç
ATOM 4285 CDZ LEU B 177	ATOM	4283	CG	LEU I	3 177	18.355	84.698	79.523	1.00110.75	С
ATOM 4285 CDZ LEU B 177	MOTA	4284	CD1	LEU I	B 177	17.804	86.036	80.112	1.00112.77	c
ATOM 4286 N CAU B 178 22.615 86.123 78.194 1.00118.09 ATOM 4287 CA GLU B 178 24.656 85.232 77.393 1.00125.35 ATOM 4289 O GLU B 178 24.656 85.232 77.7393 1.00119.59 ATOM 4289 O GLU B 178 24.777 84.407 76.489 1.00121.69 ATOM 4291 CG GLU B 178 24.391 87.728 77.608 1.00138.64 ATOM 4291 CG GLU B 178 24.391 87.728 77.608 1.00138.64 ATOM 4292 CD GLU B 178 23.392 89.265 75.843 1.00149.49 ATOM 4293 OBL GLU B 178 23.392 89.265 75.843 1.00156.28 ATOM 4295 OBL B 178 23.392 89.265 75.843 1.00156.28 ATOM 4295 OBL GLU B 178 23.392 89.265 75.843 1.00156.28 ATOM 4295 OBL GLU B 178 23.392 89.265 75.843 1.00156.28 ATOM 4295 OBL GLU B 178 23.392 89.265 75.843 1.00156.28 ATOM 4295 OBL GLU B 178 24.215 89.265 75.843 1.00156.28 ATOM 4295 OBL GLU B 178 25.207 85.133 78.198 1.0019.935 ADOM 4295 OBL GLU B 178 25.207 85.133 78.198 1.0019.935 ADOM 4295 OBL GLU B 178 25.207 85.133 78.198 1.0019.935 ADOM 4295 OBL GLU B 178 25.207 85.133 78.198 1.0019.935 ADOM 4295 OBL GLU B 178 25.603 82.693 78.512 1.00 92.68 ADOM 4298 OBL GLU B 178 25.603 82.693 78.512 1.00 92.69 ADOM 4298 OBL GLU B 178 25.603 82.693 78.512 1.00 92.23 ADOM 4295 OBL GLU B 178 25.603 82.693 79.625 1.00 82.19 ADOM 4295 OBL GLU B 178 25.603 82.693 79.625 1.00 82.19 ADOM 4295 OBL GLU B 180 24.334 82.556 78.890 1.00 83.19 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 83.99 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 83.99 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 83.99 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 83.99 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 83.99 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 83.99 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 70.99 ADOM 4204 OBL GLU B 180 24.334 82.556 78.890 1.00 70.99 ADOM 4206 OBL GLU B 180 24.233 1.29 ADOM 4206 OBL GLU B 180 24.233 1.29 ADOM 4206 OBL GLU B 180 24.233 1.29 ADOM 4206 OBL GLU B 180 24.334 82.556 78.890 1.00 66.24 ADOM 4207 OBL GLU B 180 24.2403 81.554 76.597 1.00 66.42 ADOM 4207 OBL GLU B 180 24.2403 81.554 76.597 1.00 66.42 ADOM 4207 OBL GLU B 180 24.2403 81.554 77.197	ATOM	4285	CD2	LEU I	B 177	17.284	83.868	78.675	1.00107.44	С
ATOM 4287 CA GLU B 178 21.656 85.232 77.253 1.00125.35 ATOM 4289 C GLU B 178 24.777 84.407 76.489 1.00121.69 ATOM 4290 CB GLU B 178 24.777 84.407 76.489 1.00121.69 ATOM 4290 CB GLU B 178 23.571 88.594 77.331 1.00149.49 ATOM 4291 CD GLU B 178 23.571 88.594 77.331 1.00149.49 ATOM 4291 CD GLU B 178 23.571 88.594 77.331 1.00149.49 ATOM 4292 CD GLU B 178 24.415 89.4467 7.331 1.00156.287 ATOM 4295 CD GLU B 178 24.415 89.4467 7.331 1.00156.287 ATOM 4295 CD GLU B 178 24.415 89.4467 7.331 1.00156.287 ATOM 4295 CD GLU B 178 24.415 89.4467 7.331 1.00156.287 ATOM 4295 CD GLU B 178 24.415 89.4467 7.331 1.00157.39 ATOM 4296 CD GLU B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4296 CD A ASN B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4298 CD ASN B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4298 CD ASN B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4298 CD ASN B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4298 CD ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 CD ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 CD ASN B 179 27.451 85.412 80.512 1.00 91.51 ATOM 4301 CD ASN B 179 27.451 85.412 80.512 1.00 91.51 ATOM 4301 CD ASN B 179 27.451 85.412 80.512 1.00 91.51 ATOM 4301 N LEU B 1800 23.602 81.395 77.8631 1.00 10.00 ASN B 179 27.421 85.816 81.770 1.00 96.60 ATOM 4306 CD ASN B 189 27.421 85.816 81.770 1.00 96.60 ATOM 4306 CD ASN B 189 27.421 85.816 81.770 1.00 70.39 ATOM 4306 CD ASN B 189 27.421 85.816 81.770 1.00 70.39 ATOM 4306 CD ASN B 180 22.201 78.938 79.9401 1.00 72.39 ATOM 4306 CD ASN B 180 22.201 78.938 79.950 1.00 70.39 ATOM 4306 CD ASN B 180 22.201 78.938 79.950 1.00 70.39 ATOM 4306 CD ASN B 180 22.201 78.938 79.950 1.00 70.99 ATOM 4306 CD ASN B 180 22.001 78.938 79.950 1.00 70.99 ATOM 4302 CD ASN B 180 22.001 78.938 79.950 1.00 70.99 ATOM 4302 CD ASN B 180 22.001 78.938 79.950 1.00 70.99 ATOM 4302 CD ASN B 180 22.001 78.938 79.950 1.00 70.99 ATOM 4301 CD ASN B 180 22.001 78.938 79.950 1.00 70.99 ATOM 4301 CD ASN B 180 22.001 78.938 79.950 1.00 70.99 ATOM 4301 CD ASN B 180 22.001 78.938 79.950 1.00 70.99 ATOM 4301 CD ASN										N
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ATOM 4290 CB GLUB 178 24.391 87.728 77.608 1.00138.64 ATOM 4291 CG GLUB 178 23.592 89.265 75.843 1.00156.28 ATOM 4293 OEI GLUB 178 23.392 89.265 75.843 1.00156.28 ATOM 4295 OEI GLUB 178 22.215 89.302 75.365 1.00157.99 ATOM 4295 N ASN B 179 26.246 89.044 75.149 1.00156.37 ATOM 4295 CA ASN B 179 26.246 89.047 78.782 1.00 97.15 ATOM 4296 CA ASN B 179 26.246 89.047 77.950 1.00 97.15 ATOM 4296 CA ASN B 179 26.246 89.047 77.950 1.00 97.15 ATOM 4297 C ASN B 179 26.241 81.798 77.950 1.00 92.66 ATOM 4298 O ASN B 179 26.241 81.798 77.950 1.00 92.13 ATOM 4298 CB ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4301 CDI ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4301 CDI ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4306 CD LEU B 180 22.391 80.998 77.197 1.00 70.94 ATOM 4306 CD LEU B 180 22.391 80.998 77.197 1.00 70.94 ATOM 4306 CD LEU B 180 22.391 80.998 77.197 1.00 70.94 ATOM 4306 CD LEU B 180 22.391 80.998 77.197 1.00 70.99 ATOM 4305 CD LEU B 180 22.391 80.998 77.197 1.00 70.99 ATOM 4305 CD LEU B 180 22.003 78.938 79.950 1.00 72.99 ATOM 4306 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4306 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 CD LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 CD ASP B 182 24.004 80.000 79.950 1.00 70.99 ATOM 4301 CD ASP B 182 22.005 80.000 79.950 1.00 70.99 ATOM 4301 CD ASP B 182 22.001 70.000 70.99 ATOM 4301 CD ASP B 182 22.001 70.000 70.99 ATOM 4301 CD ASP B 182 22.001 70.000 70.99 ATOM 4301 CD ASP B 182 22.000 70.99 ATOM 4301 CD ASP B 182 22.000 70.99 ATOM 4301 CD ASP B 182 22.000	ATOM	4288	С	GLU I	3 178	24.656	85.232	77.393	1.00119.59	С
ATOM 4290 CB GLU B 178 24.391 87.728 77.608 1.00138.64 ATOM 4291 CG GLU B 178 23.592 89.265 75.843 1.00156.28 ATOM 4293 OEI GLU B 178 23.392 89.265 75.843 1.00156.28 ATOM 4295 OEI GLU B 178 22.235 89.302 75.365 1.00157.99 ATOM 4295 N ASN B 179 26.264 81.004 78.785 1.00157.99 ATOM 4296 CA ASN B 179 26.266 81.004 78.782 1.00 97.15 ATOM 4296 CA ASN B 179 26.264 81.004 78.782 1.00 97.15 ATOM 4297 C ASN B 179 26.264 81.004 79.785 1.00157.99 ATOM 4298 O ASN B 179 26.241 81.798 77.950 1.00 93.11 ATOM 4298 O ASN B 179 26.241 81.798 77.950 1.00 93.11 ATOM 4298 O ASN B 179 27.451 85.412 80.512 1.00 92.268 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 80.448 80.512 1.00 82.53 ATOM 4301 ODI ASN B 179 27.451 80.448 80.512 1.00 82.53 ATOM 4301 ODI ASN B 179 27.451 80.512 80.556 78.890 1.00 83.99 ATOM 4306 C LEU B 180 22.391 80.998 77.197 1.00 70.94 ATOM 4306 C LEU B 180 22.391 80.998 77.197 1.00 70.94 ATOM 4306 C LEU B 180 22.391 80.998 77.997 1.00 70.99 ATOM 4306 C LEU B 180 22.391 80.998 79.950 1.00 70.99 ATOM 4306 C LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4306 C LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4306 C LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4306 C LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 C D LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 C D LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4301 C D LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4311 C A ALA B 181 22.403 81.554 76.597 1.00 66.42 ATOM 4311 C A ALA B 181 22.403 81.554 76.597 1.00 66.42 ATOM 4311 C A ALA B 181 22.403 81.554 76.597 1.00 66.42 ATOM 4310 C D LEU B 180 22.002 ATOM 4311 C A ALA B 181 23.553 81.217 71.500 1.00 69.48 ATOM 4312 C A ALA B 181 22.403 81.554 76.597 1.00 66.42 ATOM 4313 C A ALA B 181 22.403 81.554 76.597 1.00 69.48 ATOM 4310 C D LEU B 1	ATOM	4289	0	GLU E	3 178	24.777	84.407	76.489	1.00121.69	0
ATOM 4291 CG GLU B 178 23.571 88.994 77.331 1.00149.49 ATOM 4293 OEI GLU B 178 24.415 89.444 77.331 1.00149.49 ATOM 4294 OEZ GLU B 178 24.415 89.444 75.149 1.00156.37 ATOM 4295 N ASN B 179 25.307 85.133 78.548 1.00109.35 ATOM 4295 CA ASN B 179 25.507 88.133 78.548 1.00109.35 ATOM 4296 CA ASN B 179 25.603 82.697 87.512 1.00 97.65 ATOM 4297 C ASN B 179 25.603 82.697 85.512 1.00 97.65 ATOM 4299 C ASN B 179 25.603 82.697 85.512 1.00 97.65 ATOM 4299 C ASN B 179 25.603 82.697 85.512 1.00 97.65 ATOM 4299 C ASN B 179 27.451 85.412 80.512 1.00 97.65 ATOM 4301 CO ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4301 CD ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4303 N LEUB 180 23.602 81.305 78.683 1.00 75.33 ATOM 4304 CA LEU B 180 23.602 81.305 78.683 1.00 75.33 ATOM 4305 C LEU B 180 23.602 81.305 78.683 1.00 75.33 ATOM 4306 C LEU B 180 24.110 80.183 76.612 1.00 72.94 ATOM 4308 CG LEU B 180 24.110 80.183 76.612 1.00 72.94 ATOM 4309 CD LEU B 180 22.1391 80.998 77.197 1.00 70.94 ATOM 4309 CD LEU B 180 21.329 80.129 79.303 1.00 71.48 ATOM 4306 C ALEU B 180 21.329 80.129 79.303 1.00 71.48 ATOM 4307 CB LEU B 180 21.329 80.129 79.303 1.00 70.99 ATOM 4308 CG LEU B 180 21.329 80.129 79.303 1.00 70.99 ATOM 4301 CD LEU B 180 21.329 80.129 79.303 1.00 70.99 ATOM 4301 CD LEU B 180 21.329 80.129 79.303 1.00 70.99 ATOM 4310 CD LEU B 180 21.329 80.129 79.303 1.00 70.99 ATOM 4311 C A ALA B 181 22.022 81.401 71.71.60 70.99 ATOM 4312 CA ALA B 181 22.022 81.401 71.71.60 70.72.94 ATOM 4316 C A B B B B B B B B B B B B B B B B B B			CR	GLH F	178	24 391				С
ATOM 4292 CD GLU B 178 23.392 89.265 75.843 1.00156.28 ATOM 4294 022 GU B 178 22.215 89.302 75.365 1.00157.99 ATOM 4295 N ASN B 179 26.246 84.044 78.782 1.00197.99 ATOM 4296 CA ASN B 179 26.246 84.044 78.782 1.0097.15 ATOM 4297 C ASN B 179 26.246 84.044 78.782 1.0097.15 ATOM 4298 ON ASN B 179 26.246 84.044 78.782 1.0097.15 ATOM 4298 C ASN B 179 26.241 81.798 77.950 1.00 93.11 ATOM 4299 CB ASN B 179 26.241 81.798 77.950 1.00 93.11 ATOM 4301 CO ASN B 179 27.451 85.412 80.512 1.00 97.53 ATOM 4301 CD ASN B 179 27.451 85.412 80.512 1.00 97.53 ATOM 4301 CD ASN B 179 27.451 85.428 80.521 1.00 91.53 ATOM 4301 CD ASN B 179 27.451 85.428 80.521 1.00 91.53 ATOM 4301 CD ASN B 179 27.451 85.428 80.522 1.00 86.89 ATOM 4302 CD ASN B 189 27.423 82.566 87.791 1.00 97.53 ATOM 4303 CD ASN B 189 27.423 82.566 87.791 1.00 97.53 ATOM 4305 C LEU B 180 23.931 80.998 77.197 1.00 70.99 ATOM 4306 CD LEU B 180 23.931 80.998 77.197 1.00 70.99 ATOM 4308 CC LEU B 180 22.243 81.359 79.401 1.00 72.99 ATOM 4308 CC LEU B 180 22.243 81.359 79.9401 1.00 72.99 ATOM 4308 CC LEU B 180 22.003 78.938 79.990 1.00 79.99 ATOM 4310 CD LEU B 180 22.003 78.938 79.990 1.00 71.48 ATOM 4311 N ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4312 CA ALA B 181 22.403 81.654 76.597 1.00 66.92 ATOM 4311 N ALA B 181 23.353 81.213 74.369 1.00 79.09 ATOM 4314 O ALA B 181 23.353 81.213 74.369 1.00 79.09 ATOM 4315 CB ALA B 181 23.353 81.213 74.369 1.00 79.99 ATOM 4316 N ASP B 182 26.666 77.991 74.90 74.22 ATOM 4315 CR ALA B 181 23.555 81.247 75.192 1.00 66.42 ATOM 4316 N ASP B 182 26.667 79.996 1.00 74.22 ATOM 4316 N ASP B 182 27.40 80.40 79.998 1.00 69.42 ATOM 4317 CA ASP B 182 26.668 77.991 79.99 1.00 79.90 ATOM 4301 CD LEU B 180 29.996 80.066 79.993 1.00 69.94 ATOM 4313 C ALA B 181 23.555 81.277 74.791 79.00 79.90 ATOM 4315 CB ALA B 181 23.555 81.277 74.791 1.00 79.90 ATOM 4316 N ASP B 182 26.668 77.991 79.990 1.00 79.90 ATOM 4317 CA ASP B 182 26.668 77.991 79.990 1.00 79.90 ATOM 4318 C A ALA B 181 29.996 80.066 79.991 1.00 99.906 ATOM 4320 C B ASP B 182 26.668 79.906										č
ATOM 4293 ORI GLU B 178										-
ATOM 4294 0E2 GLU B 178 22.235 89.302 75.365 1.00157.99 ATOM 4295 N ASN B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4297 C ASN B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4298 O ASN B 179 26.246 84.044 78.782 1.00 97.15 ATOM 4298 O ASN B 179 26.241 81.798 77.950 1.00 93.11 ATOM 4298 O ASN B 179 26.241 81.798 77.950 1.00 93.11 ATOM 4298 C ASN B 179 26.768 84.0102 80.299 1.00 93.12 ATOM 4300 CC ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 91.53 ATOM 4301 N EUB 180 24.334 82.556 78.890 1.00 83.99 ATOM 4303 N EUB 180 23.602 81.305 78.683 1.00 75.33 ATOM 4304 CA EUB B 180 23.602 81.305 78.683 1.00 75.33 ATOM 4305 C EUB B 180 23.91 80.998 77.197 1.00 70.94 ATOM 4306 C EUB B 180 24.110 80.183 76.612 1.00 72.94 ATOM 4307 CB EUB B 180 21.329 80.129 79.303 1.00 71.48 ATOM 4309 CDI EUB B 180 21.329 80.129 79.303 1.00 71.48 ATOM 4309 CDI EUB B 180 22.003 78.938 79.950 1.00 77.09 ATOM 4311 N ALB 181 22.093 81.365 78.681 1.00 65.22 ATOM 4311 C CA ALB B 181 22.093 81.365 78.681 1.00 65.42 ATOM 4312 CA ALB B 181 22.093 81.447 75.192 1.00 69.48 ATOM 4313 C ALB B 181 22.403 81.654 76.597 1.00 69.48 ATOM 4315 C B ALB B 181 23.451 80.217 73.650 1.00 72.08 ATOM 4317 C C ASP B 182 23.318 80.217 73.650 1.00 79.09 ATOM 4318 C C ALB B 181 23.451 80.217 73.650 1.00 79.09 ATOM 4319 C C ALB B 181 22.403 81.477 75.192 1.00 69.48 ATOM 4311 C C ALB B 181 23.451 80.217 73.650 1.00 79.92 ATOM 4312 C C ALB B 181 23.451 80.217 73.650 1.00 79.20 ATOM 4313 C C ALB B 181 23.451 80.217 73.650 1.00 79.20 ATOM 4314 C C ALB B 181 23.451 80.217 73.650 1.00 79.20 ATOM 4315 C B ALB B 181 23.451 80.217 73.650 1.00 79.20 ATOM 4310 C D ASP B 182 26.292 79.986 73.102 1.00 79.20 ATOM 4311 C C ASP B 182 26.292 79.986 73.102 1.00 79.20 ATOM 4312 C C ASP B 182 26.292 79.986 73.102 1.00 79.20 ATOM 4313 C C ALB B 181 27.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.478 81.4										C
ATOM 4295 N ASN B 179	ATOM	4293	OE1	GLU E	3 178				1.00156.37	0
ATOM 4296 CA ASN B 179	MOTA	4294	OE2	GLU E	3 178	22.235	89.302	75.365	1.00157.99	0
ATOM 4296 CA ASN B 179										N
ATOM 4297 C ASN B 179										Ċ
ATOM 4298 O ASN B 179 26.741 81.798 77.950 1.00 93.11 ATOM 4300 CG ASN B 179 27.451 85.412 80.291 1.00 92.23 ATOM 4301 ODI ASN B 179 27.451 85.412 80.512 1.00 92.23 ATOM 4302 NDZ ASN B 179 27.423 85.816 81.770 1.00 96.60 ATOM 4303 N EUB 180 24.314 82.556 78.890 1.00 83.99 ATOM 4303 N EUB 180 23.602 81.305 78.683 1.00 75.33 ATOM 4306 C LEU B 180 23.602 81.305 78.683 1.00 75.33 ATOM 4306 C LEU B 180 23.4134 82.556 78.690 1.00 72.94 ATOM 4306 C LEU B 180 22.413 81.399 97.401 1.00 72.39 ATOM 4308 CG LEU B 180 22.243 80.988 77.197 1.00 72.39 ATOM 4308 CG LEU B 180 22.003 78.918 79.961 1.00 72.94 ATOM 4309 CD LEU B 180 22.003 78.918 79.950 1.00 72.39 ATOM 4310 CDZ LEU B 180 22.003 78.918 79.950 1.00 70.99 ATOM 4311 N ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4311 N ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4312 CA ALA B 181 23.353 81.213 74.699 1.00 66.42 ATOM 4315 CB ALA B 181 23.353 81.213 74.699 1.00 69.48 ATOM 4316 N ASP B 182 24.316 82.127 73.650 1.00 69.52 ATOM 4316 N ASP B 182 24.316 82.127 74.479 1.00 73.10 ATOM 4316 N ASP B 182 24.316 82.127 74.479 1.00 73.10 ATOM 4318 C ASP B 182 26.692 79.996 1.00 69.42 ATOM 4318 C ASP B 182 26.692 79.996 1.00 71.12 ATOM 4312 CG ASP B 182 26.692 79.996 71.00 71.12 ATOM 4312 CG ASP B 182 26.692 79.996 71.00 71.00 71.12 ATOM 4312 CG ASP B 182 26.692 79.996 71.00 71.12 ATOM 4318 C ASP B 182 26.692 79.996 71.00 73.10 ATOM 4312 CG ASP B 182 26.692 79.996 71.00 70.72 0.00 71.12 ATOM 4312 CG ASP B 182 26.692 79.996 71.00 70.12 ATOM 4312 CG ASP B 182 26.692 74.694 1.00 71.12 ATOM 4312 CG ASP B 182 26.692 74.694 1.00 71.12 ATOM 4312 CG ASP B 182 26.694 74.694 1.00 71.12 ATOM 4320 CD ASP B 182 26.692 79.996 71.00 70.12 ATOM 4320 CD ASP B 182 26.692 79.996 71.00 87.04 22 ATOM 4321 CG ASP B 182 26.694 74.694 1.00 71.15 ATOM 4320 CD ASP B 182 26.694 74.694 1.00 71.15 ATOM 4320 CD ASP B 182 26.694 74.795 1.00 70.00 71.12 ATOM 4320 CD ASP B 182 26.694 74.795 1.00 70.00 71.12 ATOM 4320 CD ASP B 182 26.694 74.70 79.994 70.00 71.12 ATOM 4320 CD ASP B 182 26.694 74.70 79.994 70.00										č
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ATOM 4301 DDI ASN B 179	ATOM	4299	CB	ASN E	3 179	26.768	84.102	80.209	1.00 92.23	С
ATOM 4301 DDI ASN B 179	ATOM	4300	CG	ASN E	3 179	27.451	85.412	80.512	1.00 91.53	С
ATOM 4302 NDZ ASN B 179										Ō
ATOM 4103 N LEU B 180										
ATOM 4105 C										N
ATOM 4306 C LEU B 180 23.391 80.998 77.197 1.00 70.94 ATOM 4306 O LEU B 180 24.110 80.183 76.612 1.00 72.94 ATOM 4307 CB LEU B 180 22.243 81.359 79.401 1.00 72.39 ATOM 4308 CG LEU B 180 21.329 80.129 79.303 1.00 70.99 ATOM 4309 CD1 LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4310 CD2 LEU B 180 12.903 78.938 79.950 1.00 70.99 ATOM 4311 N ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4311 C ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4313 C ALA B 181 22.392 81.447 75.192 1.00 65.48 ATOM 4314 O ALA B 181 23.353 81.213 74.369 1.00 72.08 ATOM 4315 CB ALB B 181 21.325 82.644 74.648 1.00 69.54 ATOM 4316 N ASP B 182 24.316 82.17 73.650 1.00 79.08 ATOM 4317 CA ASP B 182 25.567 82.008 73.729 1.00 74.22 ATOM 4318 C ASP B 182 26.515 83.176 74.640 1.00 79.33 ATOM 4320 CB ASP B 182 26.659 79.986 73.102 1.00 71.67 ATOM 4321 CG ASP B 182 26.659 79.986 73.102 1.00 71.67 ATOM 4321 CG ASP B 182 26.618 84.300 71.976 1.00 79.33 ATOM 4321 CG ASP B 182 26.618 84.300 71.976 1.00 89.64 ATOM 4323 OD2 ASP B 182 26.218 85.526 73.797 1.00 92.53 ATOM 4324 N GLY B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4325 CD D1 ASP B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4326 C GLY B 183 26.472 77.931 75.056 1.00 57.41 ATOM 4330 C TYR B 184 22.482 76.652 74.534 1.00 57.41 ATOM 4331 O C TYR B 184 22.482 76.652 74.534 1.00 57.41 ATOM 4330 C TYR B 184 22.482 76.662 77.535 1.00 57.41 ATOM 4331 C TYR B 184 22.482 76.662 77.535 1.00 57.41 ATOM 4331 C TYR B 184 22.482 76.662 77.535 1.00 57.41 ATOM 4333 CG TYR B 184 22.482 76.662 77.535 1.00 59.22 ATOM 4331 C TYR B 184 22.482 76.662 77.535 1.00 59.92 ATOM 4333 CG TYR B 184 22.482 76.662 77.535 1.00 59.92 ATOM 4331 C TYR B 184 22.482 76.662 77.535 1.00 59.92 ATOM 4333 CG TYR B 184 22.482 76.662 77.535 1.00 59.92 ATOM 4331 C TYR B 184 22.482 76.662 77.535 1.00 59.92 ATOM 4331 C TYR B 184 22.482 76.662 77.535 1.00 59.92 ATOM 4333 CG TYR B 184 22.993 79.993 70.466 1.00 97.96 ATOM 4344 CB LYS B 185 22.660 81.00 59.951 1.00 97.96 ATOM 4343 O LYS B 185 22.660 81.00 59.951 1.00 97.96 ATOM 4343 O LYS B 185 22.6										N
ATOM 4306 O LEU B 180	MOTA	4304	CA							С
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ATOM 4308 CG LEU B 180 21.329 80.129 79.303 1.00 71.48 ATOM 4310 CD2 LEU B 180 22.003 78.938 79.950 1.00 70.99 ATOM 4311 N ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4311 N ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4312 CA ALA B 181 22.403 81.654 76.597 1.00 66.42 ATOM 4313 C ALA B 181 22.403 81.654 76.597 1.00 69.48 ATOM 4314 O ALA B 181 22.438 18.213 77.3650 1.00 72.08 ATOM 4315 CB ALA B 181 23.451 80.217 73.650 1.00 69.52 ATOM 4316 N ASP B 182 24.316 82.127 74.479 1.00 73.10 ATOM 4317 CA ASP B 182 24.316 82.127 74.479 1.00 73.10 ATOM 4318 C ASP B 182 26.567 80.696 74.026 1.00 71.67 ATOM 4319 O ASP B 182 26.692 79.986 73.102 1.00 71.12 ATOM 4320 CB ASP B 182 26.515 83.176 74.040 1.00 79.33 ATOM 4321 CG ASP B 182 26.698 67.9986 73.102 1.00 71.12 ATOM 4322 ODL ASP B 182 26.608 84.300 71.976 1.00 87.03 ATOM 4323 ODZ ASP B 182 26.608 84.300 71.976 1.00 89.64 ATOM 4323 ODZ ASP B 182 26.618 84.300 71.976 1.00 89.64 ATOM 4326 C BLY B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4327 O GLY B 183 26.472 77.931 75.056 1.00 59.22 ATOM 4328 N TYR B 184 26.428 85.526 73.797 1.00 92.53 ATOM 4328 N TYR B 184 27.071 79.157 75.725 1.00 61.42 ATOM 4328 N TYR B 184 24.482 76.652 74.534 1.00 57.41 ATOM 4330 C TYR B 184 24.482 76.652 74.534 1.00 57.41 ATOM 4331 C TYR B 184 24.482 76.652 74.534 1.00 57.42 ATOM 4332 CB TYR B 184 24.482 76.682 73.058 1.00 57.82 ATOM 4331 C TYR B 184 24.482 76.682 73.058 1.00 57.82 ATOM 4331 C TYR B 184 24.482 76.682 73.058 1.00 57.82 ATOM 4331 C TYR B 184 24.482 76.668 77.070 1.00 39.91 ATOM 4331 C TYR B 184 24.482 76.682 73.058 1.00 57.82 ATOM 4331 C TYR B 184 22.493 76.682 73.058 1.00 57.82 ATOM 4331 C TYR B 184 24.482 76.652 74.534 1.00 64.34 ATOM 4331 C TYR B 184 24.482 76.668 77.070 1.00 39.91 ATOM 4331 C TYR B 184 24.482 76.668 77.070 1.00 39.91 ATOM 4331 C TYR B 184 21.998 79.998 79.998 79.999 79.908 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 79.999 7										č
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ATOM 4316 N ASP B 182										ō
ATOM 4317 CA ASP B 182	MOTA	4315	CB	ALA E	3 181	21.325			1.00 69.42	С
ATOM 4318 C ASP B 182 26.276 80.696 74.026 1.00 71.67 ATOM 4319 O ASP B 182 26.692 79.986 73.102 1.00 71.12 ATOM 4320 CB ASP B 182 26.515 83.176 74.000 1.00 79.33 ATOM 4321 CG ASP B 182 26.210 84.422 73.213 1.00 87.03 ATOM 4322 OD1 ASP B 182 26.268 84.300 71.796 1.00 89.64 ATOM 4323 OD2 ASP B 182 26.128 85.526 73.797 1.00 92.53 ATOM 4324 N GLY B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4325 CA GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4326 C GLY B 183 26.472 77.931 75.056 1.00 59.22 ATOM 4327 O GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4328 N TYR B 184 22.153 77.783 75.158 1.00 52.20 ATOM 4329 CA TYR B 184 24.482 76.652 74.534 1.00 54.34 ATOM 4330 C TYR B 184 22.482 76.652 74.534 1.00 54.34 ATOM 4331 O TYR B 184 22.492 76.682 73.058 1.00 57.82 ATOM 4332 CB TYR B 184 22.492 76.682 73.058 1.00 54.34 ATOM 4333 CD TYR B 184 22.493 76.682 73.058 1.00 54.34 ATOM 4333 CD TYR B 184 22.493 76.682 73.058 1.00 54.34 ATOM 4333 CD TYR B 184 22.477 75.982 75.960 1.00 46.73 ATOM 4334 CD1 TYR B 184 22.477 75.982 75.960 1.00 46.73 ATOM 4335 CD2 TYR B 184 22.511 74.592 76.023 1.00 65.63 ATOM 4336 CE1 TYR B 184 22.511 77.991 77.070 1.00 30.79 ATOM 4337 CE2 TYR B 184 22.511 77.996 77.070 1.00 30.79 ATOM 4338 C CT TYR B 184 22.511 77.996 77.070 1.00 30.79 ATOM 4339 OH TYR B 184 22.511 77.996 77.070 1.00 45.99 ATOM 4330 C C TYR B 184 22.511 77.996 77.070 1.00 45.99 ATOM 4340 N LYS B 185 24.720 77.954 70.961 1.00 71.54 ATOM 4341 CA LYS B 185 24.720 77.954 70.961 1.00 71.54 ATOM 4340 N LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4341 CA LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4346 CD LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4347 CE LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4348 NZ LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4356 CD LYS B 186 28.894 76.678 71.110 1.00 77.49 ATOM 4351 C HIS B 186 28.894 76.678 71.110 1.00 77.49 ATOM 4356 CD LYS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4357 CE1 HIS B 186 32.791 78.935 71.111 1.00 82.59 ATOM 4358 ND1 HIS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4357 C	MOTA	4316	N	ASP E	3 182	24.316	82.127	74.479	1.00 73.10	N
ATOM 4318 C ASP B 182 26.276 80.696 74.026 1.00 71.67 ATOM 4319 O ASP B 182 26.692 79.986 73.102 1.00 71.12 ATOM 4320 CB ASP B 182 26.515 83.176 74.000 1.00 79.33 ATOM 4321 CG ASP B 182 26.210 84.422 73.213 1.00 87.03 ATOM 4322 OD1 ASP B 182 26.268 84.300 71.796 1.00 89.64 ATOM 4323 OD2 ASP B 182 26.128 85.526 73.797 1.00 92.53 ATOM 4324 N GLY B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4325 CA GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4326 C GLY B 183 26.472 77.931 75.056 1.00 59.22 ATOM 4327 O GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4328 N TYR B 184 22.153 77.783 75.158 1.00 52.20 ATOM 4329 CA TYR B 184 24.482 76.652 74.534 1.00 54.34 ATOM 4330 C TYR B 184 22.482 76.652 74.534 1.00 54.34 ATOM 4331 O TYR B 184 22.492 76.682 73.058 1.00 57.82 ATOM 4332 CB TYR B 184 22.492 76.682 73.058 1.00 54.34 ATOM 4333 CD TYR B 184 22.493 76.682 73.058 1.00 54.34 ATOM 4333 CD TYR B 184 22.493 76.682 73.058 1.00 54.34 ATOM 4333 CD TYR B 184 22.477 75.982 75.960 1.00 46.73 ATOM 4334 CD1 TYR B 184 22.477 75.982 75.960 1.00 46.73 ATOM 4335 CD2 TYR B 184 22.511 74.592 76.023 1.00 65.63 ATOM 4336 CE1 TYR B 184 22.511 77.991 77.070 1.00 30.79 ATOM 4337 CE2 TYR B 184 22.511 77.996 77.070 1.00 30.79 ATOM 4338 C CT TYR B 184 22.511 77.996 77.070 1.00 30.79 ATOM 4339 OH TYR B 184 22.511 77.996 77.070 1.00 45.99 ATOM 4330 C C TYR B 184 22.511 77.996 77.070 1.00 45.99 ATOM 4340 N LYS B 185 24.720 77.954 70.961 1.00 71.54 ATOM 4341 CA LYS B 185 24.720 77.954 70.961 1.00 71.54 ATOM 4340 N LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4341 CA LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4346 CD LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4347 CE LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4348 NZ LYS B 185 22.660 81.032 69.585 1.00 90.86 ATOM 4356 CD LYS B 186 28.894 76.678 71.110 1.00 77.49 ATOM 4351 C HIS B 186 28.894 76.678 71.110 1.00 77.49 ATOM 4356 CD LYS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4357 CE1 HIS B 186 32.791 78.935 71.111 1.00 82.59 ATOM 4358 ND1 HIS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4357 C	ATOM	4317	CA	ASP E	3 182	25.567	82.008	73.729	1.00 74.22	С
ATOM 4319 O ASP B 182 26.692 79.986 73.102 1.00 71.12 ATOM 4320 CB ASP B 182 26.515 83.176 74.040 1.00 79.33 ATOM 4321 CG ASP B 182 26.088 84.300 71.976 1.00 87.03 ATOM 4322 ODI ASP B 182 26.088 84.300 71.976 1.00 89.64 ATOM 4323 OD2 ASP B 182 26.088 84.300 71.976 1.00 89.64 ATOM 4323 OD2 ASP B 182 26.128 85.526 73.797 1.00 92.53 ATOM 4324 N GLY B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4325 CA GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4326 C GLY B 183 27.194 77.119 74.463 1.00 59.22 ATOM 4327 O GLY B 183 27.194 77.119 74.463 1.00 59.22 ATOM 4328 N TYR B 184 24.820 76.652 74.534 1.00 57.41 ATOM 4329 CA TYR B 184 24.820 76.682 73.058 1.00 57.41 ATOM 4330 C TYR B 184 24.820 76.682 73.058 1.00 57.82 ATOM 4331 O TYR B 184 22.963 76.731 74.734 1.00 64.84 ATOM 4333 CC TYR B 184 22.963 76.731 74.734 1.00 64.84 ATOM 4333 CC TYR B 184 22.541 74.592 76.023 1.00 44.73 ATOM 4334 CDI TYR B 184 22.541 74.592 76.023 1.00 44.73 ATOM 4335 CDZ TYR B 184 22.199 73.900 77.159 1.00 41.68 ATOM 4336 CEI TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4337 CEZ TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4338 CZ TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4330 C TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4331 C TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4330 C TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4336 CEI TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4336 CEI TYR B 184 21.998 76.664 77.070 1.00 30.79 ATOM 4336 CEI TYR B 184 21.990 77.994 70.095 1.00 41.68 ATOM 4337 CEZ TYR B 184 21.990 77.994 70.095 1.00 41.68 ATOM 4340 N LYS B 185 24.459 77.884 72.394 1.00 62.31 ATOM 4341 CA LYS B 185 24.720 77.994 70.696 1.00 71.96 ATOM 4343 C C LYS B 185 22.923 70.995 1.00 71.96 ATOM 4340 N LYS B 185 22.923 79.935 70.499 1.00 71.96 ATOM 4341 CA LYS B 185 22.923 79.937 70.496 1.00 71.96 ATOM 4350 C HIS B 186 29.297 77.884 72.394 1.00 67.93 ATOM 4351 C HIS B 186 29.297 78.910 71.998 1.00 67.93 ATOM 4352 O HIS B 186 29.297 78.910 71.998 1.00 80.37 ATOM 4355 ND HIS B 186 32.791 78.935 71.119 1.00 92.59 ATOM 4357 CEI HIS B 1										č
ATOM 4321 CG ASP B 182 26.515 83.176 74.040 1.00 79.33 ATOM 4321 CG ASP B 182 26.068 84.300 71.976 1.00 89.64 ATOM 4323 OD2 ASP B 182 26.068 84.300 71.976 1.00 89.64 ATOM 4323 OD2 ASP B 182 26.128 85.526 73.797 1.00 92.53 ATOM 4324 N GLY B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4325 CA GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4326 C GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4327 O GLY B 183 27.194 77.119 74.463 1.00 52.20 ATOM 4328 N TYR B 184 25.153 77.783 75.158 1.00 57.41 ATOM 4329 CA TYR B 184 24.482 76.652 74.534 1.00 57.41 ATOM 4330 C TYR B 184 24.820 76.682 73.058 1.00 57.82 ATOM 4331 C TYR B 184 22.820 76.682 73.058 1.00 57.82 ATOM 4332 CB TYR B 184 22.474 75.982 75.960 1.00 44.73 ATOM 4333 CG TYR B 184 22.474 75.982 75.960 1.00 44.73 ATOM 4335 CD TYR B 184 22.474 75.982 75.960 1.00 44.73 ATOM 4336 CEI TYR B 184 22.198 76.664 77.070 1.00 44.73 ATOM 4337 CEZ TYR B 184 22.198 76.664 77.070 1.00 30.79 ATOM 4336 CEI TYR B 184 22.199 73.900 77.159 1.00 41.68 ATOM 4337 CEZ TYR B 184 22.199 73.900 77.159 1.00 41.68 ATOM 4338 CZ TYR B 184 22.199 73.900 77.159 1.00 41.68 ATOM 4340 N LYS B 185 24.459 77.84 70.961 1.00 79.91 ATOM 4340 N LYS B 185 24.459 77.84 72.394 1.00 62.31 ATOM 4340 N LYS B 185 24.459 77.864 72.394 1.00 79.89 ATOM 4344 CB LYS B 185 24.459 77.864 72.394 1.00 79.89 ATOM 4343 CG LYS B 185 24.459 77.864 72.394 1.00 79.89 ATOM 4340 N LYS B 185 24.459 77.864 72.394 1.00 79.89 ATOM 4340 N LYS B 185 24.459 77.864 72.394 1.00 79.89 ATOM 4340 N LYS B 185 24.459 77.864 72.394 1.00 79.89 ATOM 4340 N LYS B 185 24.459 77.894 70.961 1.00 79.96 ATOM 4340 N LYS B 185 24.459 77.894 70.9961 1.00 79.99 ATOM 4340 N LYS B 185 24.459 77.894 72.394 1.00 67.93 ATOM 4340 N LYS B 185 24.459 77.894 72.394 1.00 67.93 ATOM 4340 N LYS B 185 24.459 77.894 79.966 1.00 79.89 ATOM 4340 N LYS B 185 24.459 77.894 79.966 1.00 79.89 ATOM 4340 N LYS B 185 24.459 77.894 79.966 1.00 79.89 ATOM 4340 N LYS B 185 22.923 79.993 70.499 1.00 79.89 ATOM 4350 CB LYS B 185 22.923 79.993 70.499 1.00 79.89 ATOM 4350 CB LYS B 185 23.										ŏ
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ATOM 4323 OD2 ASP B 182	MOTA	4321	CG	ASP E	3 182	26.210	84.422	73.213	1.00 87.03	С
ATOM 4323 OD2 ASP B 182	MOTA	4322	OD1	ASP E	3 182	26.068	84.300	71.976	1.00 89.64	0
ATOM 4324 N GLY B 183 26.415 80.387 75.316 1.00 65.63 ATOM 4325 CA GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4326 C GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4327 O GLY B 183 27.071 79.157 75.725 1.00 61.42 ATOM 4328 N TYR B 184 27.194 77.119 74.463 1.00 52.20 ATOM 4328 N TYR B 184 24.482 75.652 74.534 1.00 57.41 ATOM 4329 CA TYR B 184 24.482 76.652 74.534 1.00 57.82 ATOM 4330 C TYR B 184 22.4820 76.682 73.058 1.00 57.82 ATOM 4331 O TYR B 184 22.963 76.731 74.734 1.00 46.84 ATOM 4332 CB TYR B 184 22.963 76.731 74.734 1.00 46.84 ATOM 4333 CG TYR B 184 22.963 76.731 74.734 1.00 46.84 ATOM 4334 CDI TYR B 184 22.541 74.592 76.023 1.00 45.99 ATOM 4335 CD2 TYR B 184 22.198 76.6023 1.00 45.99 ATOM 4336 CEI TYR B 184 22.199 73.900 77.159 1.00 41.68 ATOM 4337 CE2 TYR B 184 21.590 75.986 78.211 1.00 29.12 ATOM 4338 CZ TYR B 184 21.590 75.986 78.211 1.00 29.12 ATOM 4339 OH TYR B 184 21.590 75.986 78.211 1.00 29.12 ATOM 4340 N LYS B 185 24.459 77.784 72.394 1.00 62.31 ATOM 4341 CA LYS B 185 24.459 77.784 72.394 1.00 62.31 ATOM 4340 N LYS B 185 24.459 77.784 72.394 1.00 62.31 ATOM 4340 C LYS B 185 24.459 77.784 70.961 1.00 71.54 ATOM 4340 C LYS B 185 22.466 79.395 70.499 1.00 79.89 ATOM 4346 C LYS B 185 22.465 79.395 70.499 1.00 79.89 ATOM 4347 CE LYS B 185 22.660 81.032 69.585 1.00 94.03 ATOM 4348 N LYS B 185 22.923 79.793 70.468 1.00 97.66 ATOM 4348 N LYS B 186 22.923 79.793 70.468 1.00 71.49 ATOM 4350 CA HIS B 186 29.289 76.111 70.104 1.00 72.49 ATOM 4351 C HIS B 186 29.289 76.111 70.104 1.00 72.49 ATOM 4351 C HIS B 186 29.289 76.111 70.104 1.00 72.49 ATOM 4352 C HIS B 186 30.745 79.010 71.908 1.00 80.37 ATOM 4354 CG HIS B 186 30.745 79.010 71.908 1.00 80.37 ATOM 4355 ND1 HIS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4355 ND1 HIS B 186 32.791 78.935 71.119 1.00 92.59 ATOM 4359 N MET B 187 28.775 76.067 72.302 1.00 67.47										0
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ATOM 4329 CA TYR B 184	ATOM	4328	N	TYR F	3 184	25.153	77.783	75.158	1.00 57.41	N
ATOM 4330 C TYR B 184										C
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ATOM 4353 CB HIS B 186 29.279 78.910 72.182 1.00 72.20 ATOM 4354 CG HIS B 186 30.745 79.010 71.908 1.00 80.37 ATOM 4355 ND1 HIS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4356 CD2 HIS B 186 31.489 78.578 70.861 1.00 86.20 ATOM 4357 CE1 HIS B 186 32.844 79.561 72.280 1.00 88.39 ATOM 4358 NE2 HIS B 186 32.791 78.935 71.119 1.00 92.59 ATOM 4359 N MET B 187 28.775 76.067 72.302 1.00 67.47										C
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ATOM 4355 ND1 HIS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4356 CD2 HIS B 186 31.489 78.578 70.861 1.00 86.20 ATOM 4357 CE1 HIS B 186 32.844 79.561 72.280 1.00 88.39 ATOM 4358 NE2 HIS B 186 32.791 78.935 71.119 1.00 92.59 ATOM 4359 N MET B 187 28.775 76.067 72.302 1.00 67.47			CB			29.279	78.910	72.182	1.00 72.20	C C
ATOM 4355 ND1 HIS B 186 31.620 79.620 72.777 1.00 80.25 ATOM 4356 CD2 HIS B 186 31.489 78.578 70.861 1.00 86.20 ATOM 4357 CE1 HIS B 186 32.844 79.561 72.280 1.00 88.39 ATOM 4358 NE2 HIS B 186 32.791 78.935 71.119 1.00 92.59 ATOM 4359 N MET B 187 28.775 76.067 72.302 1.00 67.47								71.908		С
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ATOM 4358 NE2 HIS B 186 32.791 78.935 71.119 1.00 92.59 ATOM 4359 N MET B 187 28.775 76.067 72.302 1.00 67.47										c
ATOM 4359 N MET B 187 28.775 76.067 72.302 1.00 67.47										
										N
	MOTA	4359	N			28.775				N
			CA			29.100	74.656	72.475		С
						_				_

ATOM	4361	С	MET	В	187	28.554	73.831	71.301	1.00 56.92	С
ATOM	4362	ŏ	MET		187	29.277	73.045	70.680	1.00 54.64	0
ATOM	4363	CB	MET			28.515	74.164	73.811	1.00 60.48	C
MOTA	4364	CG	MET			28.709	72.679	74.112	1.00 69.23	Ċ
MOTA	4365	SD CE	MET MET			30.432 30.791	72.124 72.276	74.165 75.893	1.00 77.92 1.00 66.33	s C
ATOM ATOM	4366 4367	N	SER			27.277	74.043	70.996	1.00 50.98	N
ATOM	4368	CA	SER			26.597	73.348	69.908	1.00 46.97	Ċ
ATOM	4369	С	SER			27.472	73.286	68.668	1.00 45.49	С
MOTA	4370	0	SER			27.652	72.227	68.074	1.00 36.98	0
MOTA	4371	CB	SER			25.285	74.059 73.339	69.570	1.00 48.08	C
MOTA MOTA	4372 4373	OG N	SER			24.556 28.022	74.430	68.598 68.290	1.00 49.12 1.00 46.79	N
MOTA	4374	CA	LEU			28.887	74.523	67.117	1.00 53.44	С
ATOM	4375	С	LEU			30.231	73.831	67.360	1.00 50.11	С
MOTA	4376	0	LEU			30.780	73.173	66.466	1.00 48.93	0
MOTA	4377	CB	LEU			29.129	75.998	66.778	1.00 62.69 1.00 69.48	C C
ATOM ATOM	4378 4379	CD1	LEU			27.896 28.327	76.898 78.363	66.612 66.690	1.00 69.15	č
ATOM	4380		LEU			27.186	76.588	65.283	1.00 71.03	č
MOTA	4381	N	ALA			30.755	74.001	68.574	1.00 43.50	N
ATOM	4382	CA	ALA			32.034	73.412	68.955	1.00 46.88	C
ATOM	4383	Č	ALA			32.027 32.967	71.929 71.398	68.637 68.049	1.00 49.66 1.00 48.69	C
MOTA MOTA	4384 4385	O CB	ALA ALA			32.285	73.630	70.440	1.00 45.92	č
ATOM	4386	N	LEU			30.941	71.271	69.016	1.00 57.32	N
ATOM	4387	ĊA	LEU	В	191	30.793	69.844	68.780	1.00 64.62	С
MOTA	4388	C	LEU			30.777	69.508	67.274	1.00 68.59	C
ATOM	4389	0	LEU			31.671	68.806	66.791	1.00 73.98	0
MOTA MOTA	4390 4391	CB CG	LEU			29.521 29.465	69.347 69.631	69.493 71.015	1.00 63.93 1.00 63.18	c
ATOM	4392		LEU			28.071	69.343	71.552	1.00 66.63	С
ATOM	4393		LEU			30.499	68.789	71.762	1.00 52.69	С
MOTA	4394	N	ASN		192	29.781	70.018	66.539	1.00 76.65	Ŋ
ATOM	4395	CA	ASN			29.656	69.781	65.086 64.449	1.00 86.95	C
ATOM ATOM	4396 4397	C 0	ASN ASN			31.027 31.365	69.895 69.184	63.497	1.00 88.71 1.00 91.35	ŏ
ATOM	4398	ČВ	ASN			28.704	70.814	64.439	1.00 88.88	c
ATOM	4399	CG	ASN			28.620	70.686	62.906	1.00 83.62	С
ATOM	4400		ASN			29.534	71.101	62.191	1.00 70.80	0
MOTA	4401		ASN		192	27.509	70.116	62.432	1.00 82.55	N
MOTA MOTA	4402 4403	N CA	ARG ARG		193	31.812 33.161	70.808 71.071	65.003 64.545	1.00 86.76 1.00 82.47	N C
ATOM	4404	C	ARG			34.081	69.885	64.814	1.00 70.87	č
ATOM	4405	ŏ	ARG		193	34.838	69.474	63.938	1.00 67.90	0
MOTA	4406	CB	ARG		193	33.701	72.307	65.253	1.00 88.33	c
ATOM	4407	CG	ARG		193	35.004	72.839	64.697	1.00 98.87	C
ATOM ATOM	4408 4409	CD NE	ARG ARG			35.354 34.145	74.104 74.896	65.433 65.659	1.00112.98 1.00124.52	N
ATOM	4410	CZ	ARG			34.084	75.991	66.414	1.00127.47	Ċ
MOTA	4411	NH1	ARG			35.170	76.445	67.029	1.00125.63	N
MOTA	4412		ARG			32.929	76.630	66.562	1.00128.36	N
ATOM	4413	N	THR			34.010	69.331 68.201	66.018 66.373	1.00 60.49 1.00 56.47	N C
ATOM .	4414 4415	CA C	THR THR			34.860 34.764	67.077	65.358	1.00 54.18	č
MOTA	4416	ŏ	THR			35.707	66.300	65.205	1.00 56.94	ō
MOTA	4417	СB	THR			34.489	67.602	67.738	1.00 62.64	C
MOTA	4418		THR			33.255	66.885	67.616	1.00 64.36	0
MOTA	4419		THR	_		34.347	68.698 66.973	68.788 64.679	1.00 67.77 1.00 54.96	C N
ATOM	4420	N CA	GLY GLY			33.626 33.473	65.924	63.690	1.00 68.23	Ċ
ATOM	4422	c	GLY			32.794	64.682	64.229	1.00 74.58	С
MOTA	4423	0	GLY	В	195	32.168	63.933	63.478	1.00 79.21	0
MOTA	4424	N	ARG			32.930	64.456	65.531	1.00 75.66	N
MOTA	4425 4426	CA	ARG ARG			32.313 30.795	63.305 63.529	66.187 66.182	1.00 77.42 1.00 72.79	C C
MOTA MOTA	4427	C 0	ARG			30.733	64.637	66.449	1.00 67.36	ŏ
ATOM	4428	СВ	ARG			32.843	63.194	67.631	1.00 81.41	0 C C
ATOM	4429	CG	ARG	В	196	32.333	62.005	68.456	1.00 87.93	č
MOTA	4430	CD			196	33.183	60.752	68.294	1.00 90.34	C N
MOTA MOTA	4431	NE C2			196 196	32.592 32.916	59.628 58.353	69.015 68.824	1.00 94.58 1.00 98.29	C
ATOM	4432 4433	CZ NH1	ARG			33.839	58.017	67.929	1.00 98.29	N
MOTA	4434	NH2				32.296	57.408	69.518	1.00103.72	N
MOTA	4435	N	SER	В	197	30.026	62.494	65.851	1.00 71.16	N
MOTA	4436	CA			197	28.568	62.600	65.839	1.00 69.64	C
MOTA MOTA	4437 4438	C 0			197 197	28.089 28.034	62.511 61.414	67.289 67.856	1.00 69.02 1.00 71.10	Ö
ATOM	4439	СВ			197	27.959	61.456	65.028	1.00 69.96	č
ATOM	4440	OG			197	28.501	61.421	63.725	1.00 71.61	0
MOTA	4441	N			198	27.743	63.658	67.882	1.00 65.88	N

MOTA	4442	CA	ILE	B 198	27.299	63.712	69.279	1.00 61.80	С
ATOM	4443	C	ILE	B 198	25.866	64.200	69.501	1.00 60.52	С
ATOM	4444	Õ		B 198	25.568	65.364	69.259	1.00 60.48	0
ATOM	4445	СВ		B 198	28.200	64.660	70.122	1.00 60.81	С
ATOM	4446			B 198	29.678	64.420	69.815	1.00 65.48	С
ATOM	4447			B 198	27.946	64.427	71.614	1.00 56.41	Ċ
ATOM	4448			B 198	30.607	65.443	70.448	1.00 65.33	č
ATOM	4449	N		B 199	24.979	63.330	69.973	1.00 57.43	N
ATOM	4450	CA		B 199	23.618	63.769	70.260	1.00 49.81	Ċ
ATOM	4451	C		B 199	23.719	64.820	71.351	1.00 43.22	č
MOTA	4452	ŏ		B 199	24.204	64.553	72.451	1.00 41.32	ŏ
MOTA	4453	СВ		B 199	22.740	62.631	70.772	1.00 52.26	č
ATOM	4454			B 199	21.425	63.197	71.298	1.00 52.72	č
ATOM	4455			B 199	22.493	61.636	69.648	1.00 55.82	č
ATOM	4456	N N		B 200	23.257	66.018	71.036	1.00 35.72	Ň
ATOM	4457	CA		B 200	23.331	67.129	71.966	1.00 39.70	Ċ
ATOM	4458	c		B 200	21.998	67.382	72.639	1.00 42.09	č
ATOM	4459	ŏ		B 200	21.038	67.775	71.971	1.00 44.05	ŏ
ATOM	4460	ČВ		B 200	23.788	68.359	71.193	1.00 45.19	Ċ
ATOM	4461	CG		B 200	24.006	69.610	72.004	1.00 47.73	Č
ATOM	4462			B 200	24.658	69.570	73.231	1.00 54.60	Č
ATOM	4463			B 200	23.624	70.853	71.500	1.00 46.16	Ċ
ATOM	4464			B 200	24.929	70.743	73.939	1.00 60.84	Ċ
ATOM	4465			B 200	23.888	72.031	72.190	1.00 51.40	Č
ATOM	4466	cz		B 200	24.543	71.974	73.413	1.00 59.57	Ċ
MOTA	4467	OH		B 200	24.808	73.144	74.102	1.00 58.13	ō
ATOM	4468	N		B 201	21.944	67.147	73.954	1.00 41.10	N
ATOM	4469	CA		B 201	20.719	67.338	74.738	1.00 43.57	Ċ
MOTA	4470	Č.		B 201	20.781	68.543	75.670	1.00 41.63	Ċ
MOTA	4471	ŏ		B 201	21.400	68.500	76.736	1.00 35.40	Ō
ATOM	4472	СB		B 201	20.407	66.103	75.571	1.00 46.88	Ċ
ATOM	4473	ŌĞ		B 201	19.239	66.329	76.338	1.00 49.04	ō
ATOM	4474	N		B 202	20.089	69.600	75.267	1.00 43.09	N
MOTA	4475	CA		B 202	20.062	70.849	76.002	1.00 40.52	С
ATOM	4476	Č.		B 202	19.030	70.884	77.115	1.00 40.12	С
ATOM	4477	ō		B 202	18.131	70.045	77.175	1.00 45.63	0
ATOM	4478	ČВ		B 202	19.818	71.990	75.018	1.00 39.64	С
ATOM	4479	SG		B 202	20.914	71.849	73.565	1.00 56.69	S
ATOM	4480	N		B 203	19.194	71.865	78.001	1.00 32.53	N
ATOM	4481	CA		B 203	18.317	72.100	79.153	1.00 30.57	С
ATOM	4482	c		B 203	18.027	73.604	79.110	1.00 32.05	С
ATOM	4483	ŏ		B 203	17.406	74.181	80.005	1.00 34.36	0
ATOM	4484	CB		B 203	19.068	71.724	80.431	1.00 30.69	С
ATOM	4485	CG		B 203	18.200	71.526	81.658	1.00 40.33	С
ATOM	4486	CD		B 203	18.939	70.820	82.789	1.00 44.25	С
ATOM	4487			B 203	19.292	69.630	82.637	1.00 42.33	0
ATOM	4488			B 203	19.182	71.469	83.827	1.00 46.40	0
ATOM	4489	N		B 204	18.498	74.207	78.021	1.00 34.86	N
ATOM	4490	CA		B 204	18.369	75.628	77.732	1.00 33.77	С
ATOM	4491	C		B 204	17.020	76.256	78.159	1.00 33.34	С
ATOM	4492	ō		B 204	16.976	77.120	79.038	1.00 32.51	0
ATOM	4493	СВ	TRP	B 204	18.597	75.810	76.229	1.00 36.11	C
ATOM	4494	CG	TRP	B 204	18.627	77.212	75.706	1.00 43.38	c
ATOM	4495	CD1	TRP	B 204	18.269	78.354	76.361	1.00 52.77	С
MOTA	4496			B 204	19.020	77.613	74.379	1.00 46.69	C
MOTA	4497	NE1	TRP	B 204	18.414	79.439	75.526	1.00 58.54	N
MOTA	4498	CE2	TRP	B 204	18.874	79.012	74.305	1.00 53.83	С
MOTA	4499			B 204	19.483	76.921	73.248	1.00 44.22	Ç
ATOM	4500	CZ2	TRP	B 204	19.177	79.737		1.00 57.36	С
MOTA	4501	CZ3	TRP	B 204	19.785	77.643	72.096	1.00 42.79	Ç
MOTA	4502	CH2	TRP	B 204	19.630	79.037	72.055	1.00 51.56	С
MOTA	4503	N	PRO	B 205	15.902	75.794	77.562	1.00 35.29	N
ATOM	4504	ÇA	PRO	B 205	14.556	76.303	77.851	1.00 24.59	C
ATOM	4505	С		B 205	14.260	76.396	79.332	1.00 20.83	C
ATOM	4506	0		B 205	13.889	77.461	79.825	1.00 28.83	0
ATOM	4507	CB		B 205	13.644	75.290	77.163	1.00 28.26	C
ATOM	4508	CG		B 205	14.485	74.736	76.070	1.00 39.15	C
ATOM	4509	CD		B 205	15.813	74.564	76.754	1.00 41.80	C
ATOM	4510	N		B 206	14.382	75.264	80.025	1.00 15.54	N
ATOM	4511	CA		B 206	14.127	75.196	81.457	1.00 24.00	C
ATOM	4512	Č		B 206	14.743	76.400	82.164	1.00 26.77	c
ATOM	4513	0		B 206	14.303	76.779	83.250	1.00 19.16	C 0
ATOM	4514	CB		B 206	14.724	73.914	82.018	1.00 35.69	c
ATOM	4515	CG		B 206	14.832	73.841	83.539	1.00 49.18	Ċ
ATOM	4516			B 206	13.444	73.764	84.157	1.00 60.58	c
ATOM	4517			B 206	15.662	72.632	83.925	1.00 59.26	N
MOTA	4518	N		B 207	15.770	76.977	81.531	1.00 38.18	C
MOTA	4519	CA		B 207	16.477	78.147	82.046 81.372	1.00 48.47	Ċ
MOTA	4520	C		B 207	16.156	79.483 80.509	81.756	1.00 58.12 1.00 64.48	0
ATOM	4521 4522	0		B 207	16.712	77.917	81.985	1.00 50.26	Č
ATOM	4522	СВ	111	B 207	17.981	11.321	02.505	2.00 30.20	_

ATOM	4523	CG	TYR	R 2	07	18.439	76.924	83.008	1.00 54.09	С
ATOM							77.272	84.349	1.00 53.33	č
	4524		TYR		107	18.521				č
ATOM	4525		TYR			18.748	75.618	82.645	1.00 57.56	
ATOM	4526	CEl	TYR	B 2	207	18.900	76.339	85.313	1.00 55.47	С
ATOM	4527	CE2	TYR	B 2	107	19.129	74.675	83.598	1.00 56.42	· C
ATOM	4528	CZ	TYR		07	19.201	75.039	84.931	1.00 54.59	С
									1.00 54.11	ō
MOTA	4529	ОН	TYR		107	19.553	74.099	85.877		
ATOM	4530	N	MET	B 2	108	15.289	79.497	80.362	1.00 67.16	N
ATOM	4531	CA	MET	B 2	108	14.937	80.774	79.736	1.00 76.35	С
ATOM	4532	C	MET			13.915	81.470	80.644	1.00 81.72	С
									1.00 85.11	ŏ
ATOM	4533	0	MET			13.966	82.692	80.809		
ATOM	4534	CB	MET	B 2	108	14.380	80.580	78.327	1.00 78.86	С
MOTA	4535	CG	MET	B 2	808	15.418	80.942	77.277	1.00 78.81	С
ATOM	4536	SD		B 2		14.772	81.142	75.613	1.00 93.07	S
	4537	ČE	MET			14.251	82.885	75.607	1.00 86.49	c
ATOM										
ATOM	4538	N	TRP			13.008	80.687	81.235	1.00 86.64	N
MOTA	4539	CA	TRP	B 2	109	12.029	81.188	82.189	1.00 96.02	С
MOTA	4540	С	TRP	B 2	109	12.995	81.443	83.364	1.00101.19	С
ATOM	4541	Ō	TRP			13.911	80.672	83.551	1.00 99.10	0
										č
ATOM	4542	CB	TRP			11.041	80.043	82.612	1.00102.01	
ATOM	4543	CG	TRP	B 2	109	10.043	79.627	81.557	1.00107.53	С
MOTA	4544	CD1	TRP	B 2	209	9.016	80.384	81.049	1.00109.21	С
MOTA	4545		TRP			10.005	78.368	80.855	1.00107.49	С
									1.00107.06	N
MOTA	4546		TRP			8.345	79.663	80.072		
MOTA	4547	CE2	TRP	B 2	209	8.938	78.433	79.929	1.00105.86	С
MOTA	4548	CE3	TRP	B 2	109	10.773	77.197	80.918	1.00104.86	С
MOTA	4549		TRP			8.625	77.374	79.067	1.00100.39	С
	4550		TRP				76.143	80.063	1.00101.89	č
MOTA						10.456				
MOTA	4551	CH2	TRP	B 2	209	9.390	76.245	79.147	1.00 99.66	С
MOTA	4552	N	PRO	B 2	210	12.826	82.510	84.153	1.00106.91	N
ATOM	4553	CA	PRO			11.842	83.586	84.165	1.00114.58	C
ATOM	4554	Ċ	PRO		210	12.358	84.827	83.452	1.00119.07	C
									1.00120.59	ŏ
MOTA	4555	0	PRO			12.703	85.820	84.096		
ATOM	4556	СВ	PRO	B 2	210	11.676	83.859	85.634	1.00112.27	С
MOTA	4557	CG	PRO	B 2	210	13.093	83.768	86.118	1.00111.13	С
ATOM	4558	CD	PRO		210	13.587	82.522	85.420	1.00107.22	С
						12.402			1.00123.20	N
MOTA	4559	N	PHE				84.766	82.132		
MOTA	4560	CA	PHE	B 2	211	12.904	85.877	81.361	1.00125.20	С
MOTA	4561	С	PHE	B 2	211	12.062	86.099	80.138	1.00121.76	С
MOTA	4562	0	PHE			11.730	87.225	79.797	1.00125.34	0
						14.348	85.590	80.957	1.00132.80	Ċ
MOTA	4563	CB	PHE							
MOTA	4564	CG	PHE	B 2	211	15.322	85.679	82.093	1.00141.06	C
MOTA	4565	CD1	PHE	B 2	211	15.621	86.909	82.673	1.00143.96	С
ATOM	4566		PHE		211	15.957	84.541	82.570	1.00143.20	С
						16.535	86.999	83.709	1.00147.62	Ċ
MOTA	4567		PHE		211					
MOTA	4568		PHE			16.872	84.622	83.605	1.00144.40	C
MOTA	4569	CZ	PHE	B 2	211	17.165	85.849	84.175	1.00147.42	С
MOTA	4570	N	GLN	B 2	212	11.714	85.004	79.475	1.00117.65	N
ATOM	4571	CA	GLN			10.895	85.060	78.262	1.00116.10	С
								77.630	1.00113.23	Ċ
MOTA	4572	С	GLN		212	10.741	83.683			
ATOM	4573	0	GLN	B 2	212	11.690	82.898	77.603	1.00113.03	0
ATOM	4574	CB	GLN	B 2	212	11.539	86.026	77.266	1.00122.76	С
MOTA	4575	CG	GLN		212	13.060	86.006	77.235	1.00126.97	С
					212	13.638	87.096	76.347	1.00128.58	Ċ
ATOM	4576	CD	GLN							
ATOM	4577	OE1	GLN	B 2	212	13.426	88.274	76.596	1.00128.76	0
MOTA	4578	NE2	GLN	B 2	212	14.351	86.704	75.293	1.00129.44	N
ATOM	4579	N	LYS	B 2	213	9.541	83.407	77.135	1.00111.73	N
MOTA	4580	CA	LYS			9.236	82.153	76.480	1.00112.52	С
								75.330	1.00107.11	č
ATOM	4581	C	LYS			10.253	81.991			
ATOM	4582	0	LYS			10.422	82.887	74.515	1.00108.90	0
MOTA	4583	CB	LYS	B 2	213	7.788	82.200	75.936	1.00116.60	Ç
MOTA	4584	CG	LYS			6.727	82.629	76.979	1.00118.58	C
ATOM	4585	CD	LYS			6.523	84.151	77.061	1.00115.90	С
ATOM						5.279	84.512	77.879	1.00111.08	č
	4586	CE	LYS						1.00 99.14	N
MOTA	4587	NZ	LYS			5.070	85.985	78.035		
MOTA	4588	N	PRO	B 2	214	10.960	80.848	75.278	1.00 99.46	N
MOTA	4589	CA	PRO			11.981	80.491	74.269	1.00 94.71	С
ATOM	4590	c	PRO			11.711	80.423	72.754	1.00 90.00	Ċ
							79.892	72.317	1.00 92.92	ŏ
MOTA	4591	0	PRO			10.697				ŏ
ATOM	4592	CB	PRO	B 2	214	12.542	79.159	74.803	1.00 96.49	Ç
MOTA	4593	CG	PRO			11.514	78.672	75.811	1.00 90.86	С
ATOM	4594	CD	PRO			10.996	79.920	76.431	1.00 92.17	Ċ
							80.976	71.961	1.00 82.14	Ñ
ATOM	4595	N	ASN			12.633				
MOTA	4596	CA	ASN			12.498	80.901	70.510	1.00 73.32	Ċ
MOTA	4597	С	ASN	B 2	215	12.897	79.450	70.336	1.00 62.81	С
ATOM	4598	ō	ASN			14.078	79.119	70.282	1.00 53.18	0
ATOM	4599	СВ	ASN			13.502	81.826	69.779	1.00 86.68	Ċ
								68.254		č
MOTA	4600	CG	ASN			13.275	81.883		1.00 96.59	
ATOM	4601		ASN			12.632	80.996	67.692	1.00 97.37	0
ATOM	4000	AIT) 2	ASN	R 2	215	13.796	82.925	67.596	1.00105.86	N
M I OF	4602	MDS	U DI							
ATOM	4602	N	TYR			11.894	78.580	70.342	1.00 56.91	N

MOTA	4604	CA	TVR	B 21	6 12.095	77.143	70.169	1.00 5	7 71	С
ATOM	4605	c		B 21		76.824	68.756	1.00 5		č
MOTA	4606	0		B 21		75.834	68.532	1.00 6		0
MOTA	4607	CB		B 21		76.387	70.436	1.00 5		С
ATOM	4608	CG	TYR	B 21	6 10.478	76.145	71.908	1.00 4	7.31	С
MOTA	4609	CD1	TYR	B 21	6 11.306	75.331	72.695	1.00 4	B.30	С
ATOM	4610		TYR			76.709	72.511	1.00 4		C
ATOM	4611		TYR			75.082	74.040		8.66	č
										č
MOTA	4612		TYR			76.466	73.860		9.11	Ç
MOTA	4613	CZ	TYR	B 21		75.650	74.615	1.00 3	5.71	С
ATOM	4614	ОН	TYR	B 21	6 9.606	75.397	75.945	1.00 3	9.39	0
MOTA	4615	N	THR	B 21	7 12.194	77.650	67.791	1.00 5	8.65	N
MOTA	4616	CA		B 21		77.407	66.425	1.00 6		С
ATOM	4617	c		B 21		77.577	66.435	1.00 6		č
MOTA	4618	0		B 21		76.880	65.723	1.00 7		0
MOTA	4619	СВ		B 21		78.419	65.456	1.00 7		ç
MOTA	4620	OG1	THR	B 21		78.492	65.704	1.00 7	1.64	0
ATOM	4621	CG2	THR	B 21	7 12.225	77.985	64.015	1.00 7	8.78	С
ATOM	4622	N	GLU	B 21	8 14.595	78.516	67.259	1.00 6	0.24	N
ATOM	4623	CA		B 21		78.808	67.407	1.00 5		C
										č
ATOM	4624	C		B 21		77.568	67.994	1.00 5		~
MOTA	4625	0		B 21		76.857	67.320	1.00 4		0
MOTA	4626	CB		B 21		79.999	68.345	1.00 6		С
ATOM	4627	CG	GLU	B 21	B 17.578	80.397	68.675	1.00 7	1.15	C
MOTA	4628	CD	GLU	B 21	8 17.702	81.896	68.856	1.00 7	7.94	С
MOTA	4629		GLU			82.623	67.851		9.20	Ō
ATOM	4630		GLU			82.349	69.993	1.00 7		ŏ
							69.259	1.00 4		
MOTA	4631	N		B 21		77.320				N
MOTA	4632	CA		B 21		76.171	70.011	1.00 4		C
MOTA	4633	С	ILE	B 21	9 16.924	74.897	69.185	1.00 3	4.04	С
ATOM	4634	0	ILE	B 21	9 17.939	74.208	69.199	1.00 3	8.58	0
ATOM	4635	CB	ILE	B 21	9 15.922	75.870	71.204	1.00 4	0.80	С
ATOM	4636		ILE			77.115	72.089	1.00 4		c
-			ILE				71.967	1.00 3		č
ATOM	4637					74.653				
ATOM	4638		ILE			76.865	73.432	1.00 5		c
MOTA	4639	N		B 22		74.582	68.492	1.00 2		N
ATOM	4640	CA	ARG	B 22	0 15.742	73.393	67.662	1.00 3	1.02	С
ATOM	4641	С	ARG	B 22	0 16.849	73.364	66.627	1.00 3	8.66	С
ATOM	4642	0	ARG	B 22		72.310	66.083	1.00 4	3.62	0
ATOM	4643	ČВ		B 22		73.329	66.964	1.00 3		Ċ
								1.00 5		č
ATOM	4644	CG	ARG			72.450	65.737			Č
ATOM	4645	ÇD	ARG			71.956	65.382	1.00 7		С
MOTA	4646	NE	ARG	B 22	0 13.095	70.576	64.916	1.00 9	1.96	N
ATOM	4647	CZ	ARG	B 22	0 12.040	69.823	64.626	1.00 9	8.73	С
ATOM	4648	NH1	ARG	B 22	0 10.817	70.322	64.753	1.0010	0.04	N
ATOM	4649		ARG			68.570	64.218	1.0010		N
	4650			B 22		74.524	66.340	1.00 4		N
MOTA		N								C
ATOM	4651	CA		B 22		74.597	65.368	1.00 5		
MOTA	4652	С		B 22		74.423	66.097	1.00 5		C
ATOM	4653	0	GLN	B 22	1 20.897	74.725	65.565	1.00 6		0
MOTA	4654	CB	GLN	B 22	1 18.542	75.951	64.681	1.00 6	8.87	C
ATOM	4655	CG	GLN	B 22	1 17.296	76.321	63.945	1.00 8	3.58	С
ATOM	4656	CD		B 22		77.570	63.134	1.00 9	1.32	С
ATOM	4657		GLN			78.617	63.665	1.00 9		Ó
ATOM	4658		GLN			77.471	61.836	1.00 9		N
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ATOM	4659	N	TYR			73.938	67.325	1.00 5		N
ATOM	4660	CA	TYR			73.751	68.141	1.00 4		c
MOTA	4661	С		B 22		72.521	69.047	1.00 5		C
ATOM	4662	0	TYR	B 22	2 21.879	72.193	69.693	1.00 5		0
ATOM	4663	CB	TYR	B 22	2 21.149	74.991	69.008	1.00 5	2.48	С
ATOM	4664	CG		B 22		76.187	68.266	1.00 6		С
ATOM	4665		TYR			76.126	67.596	1.00 6		č
ATOM	4666		TYR			77.393	68.275	1.00 6		č
										Š
ATOM	4667		TYR			77.230	66.960	1.00 6		ž
MOTA	4668	CE2		B 22		78.509	67.642	1.00 6		0000
ATOM	4669	CZ		B 22		78.418	66.988	1.00 6		С
MOTA	4670	ОН	TYR	B 22	2 23.259	79.516	66.372	1.00 6	3.49	0
MOTA	4671	N		B 22		71.837	69.100	1.00 5	0.96	N
ATOM	4672	CA		B 22		70.683	69.973	1.00 4		С
ATOM	4673	c		B 22		69.531	69.418	1.00 4		Ċ
MOTA	4674	ŏ		B 22		69.709	68.616	1.00 5		ŏ
								1.00 5		č
MOTA	4675	CB		B 22		71.113	71.279			
ATOM	4676	SG		B 22		72.564	71.979	1.00 5		S
MOTA	4677	N		B 22		68.338	69.866	1.00 4		N
MOTA	4678	CA		B 22		67.137	69.433	1.00 4		С
MOTA	4679	С		B 22		66.968	70.324	1.00 3	7.77	С
ATOM	4680	ō		B 22		66.280	69.974	1.00 3		0
ATOM	4681	СB		B 22		65.956	69.528	1.00 5		Č
ATOM	4682	CG		B 22		66.052	68.520	1.00 5		č
ATOM	4683		ASN			65.840	68.836	1.00 6		ŏ
ATOM	4684		ASN			66.373	67.286	1.00 5		N
A 1 OF	4004	MDZ	UDIN	0 22	4 20.226	00.373	57.200	1.00 5	J. 17	14

				_	225		C2 C00			
ATOM	4685	N	HIS			17.343	67.609	71.485	1.00 31.45	N
MOTA	4686	CA	HIS	В	225	16.245	67.631	72.427	1.00 33.69	С
MOTA	4687	С	HIS	В	225	16.642	68.400	73.660	1.00 32.39	С
			HIS			17.776	68.344	74.121	1.00 30.58	ŏ
MOTA	4688	0								
ATOM	4689	CB	HIS			15.721	66.235	72.763	1.00 36.06	С
MOTA	4690	CG	HIS	В	225	16.774	65.182	72.887	1.00 34.13	С
MOTA	4691	NDI	HIS	В	225	17.674	65.148	73.929	1.00 29.91	N
					225	17.014	64.075	72.141	1.00 33.57	Ċ
MOTA	4692	CD2								
ATOM	4693		HIS			18.419	64.061	73.823	1.00 27.98	С
ATOM	4694	NE2	HIS	В	225	18.039	63.393	72.749	1.00 27.97	N
ATOM	4695	N	TRP			15.667	69.126	74.179	1.00 32.53	N
							70.025	75.307	1.00 33.97	Ċ
ATOM	4696	CA	TRP			15.839				
ATOM	4697	C	TRP			14.852	69.787	76.464	1.00 38.96	С
ATOM	4698	0	TRP	В	226	13.775	69.221	76.275	1.00 47.80	0
MOTA	4699	CB	TRP	В	226	15.653	71.435	74.754	1.00 30.08	С
	4700		TRP			14.415	71.478	73.872	1.00 32.05	Ċ
ATOM		CG								
ATOM	4701		TRP			13.112	71.579	74.293	1.00 32.11	Ç
MOTA	4702	CD2	TRP	В	226	14.354	71.268	72.451	1.00 31.67	С
ATOM	4703	NE1	TRP	В	226	12.251	71.438	73.226	1.00 23.57	N
ATOM	4704		TRP			12.983	71.244	72.087	1.00 28.32	С
										Č
MOTA	4705		TRP			15.322	71.090	71.450	1.00 39.08	C
MOTA	4706	CZ2	TRP	В	226	12.557	71.053	70.768	1.00 33.66	· c
ATOM	4707	CZ3	TRP	В	226	14.894	70.896	70.125	1.00 50.47	С
MOTA	4708		TRP		226	13.521	70.879	69.803	1.00 47.28	C
			ARG			15.229	70.239	77.658	1.00 31.64	N
ATOM	4709	N								
MOTA	4710	CA	ARG			14.389	70.117	78.849	1.00 35.03	C
MOTA	4711	С	ARG	В	227	13.435	71.312	78.913	1.00 39.53	С
ATOM	4712	0	ARG	В	227	13.776	72.405	78.461	1.00 40.49	0
ATOM	4713	ČВ	ARG			15.259	70.096	80.106	1.00 35.87	С
										č
MOTA	4714	CG	ARG			15.897	68.764	80.394	1.00 35.40	
ATOM	4715	CD	ARG	В	227	14.850	67.753	80.848	1.00 38.85	С
ATOM	4716	NE	ARG	В	227	14.285	68.071	82.155	1.00 27.21	N
ATOM	4717	CZ	ARG	R	227	14.982	68.090	83.284	1.00 24.17	С
							67.809	83.276	1.00 23.16	N
ATOM	4718	NH1				16.274				
MOTA	4719	NH2	ARG			14.384	68.385	84.423	1.00 21.24	N
ATOM	4720	N	ASN	В	228	12.243	71.107	79.470	1.00 39.75	N
MOTA	4721	CA	ASN	R	228	11.268	72.189	79.579	1.00 37.24	С
			ASN			10.850	72.435	81.025	1.00 43.45	Ċ
MOTA	4722	C								
ATOM	4723	0	ASN			10.843	73.587	81.472	1.00 51.94	0
ATOM	4724	CB	ASN	В	228	10.008	71.900	78.745	1.00 40.38	С
MOTA	4725	CG	ASN	В	228	10.285	71.836	77.249	1.00 53.86	С
	4726		ASN			10.999	72.675	76.697	1.00 55.95	Ö
ATOM										
MOTA	4727	ND2	ASN			9.704	70.839	76.582	1.00 65.88	N
MOTA	4728	N	PHE	В	229	10.509	71.359	81.751	1.00 49.79	N
ATOM	4729	CA	PHE	В	229	10.057	71.446	83.155	1.00 47.88	С
ATOM	4730	C	PHE			11.022	70.869	84.201	1.00 44.13	C
										ŏ
MOTA	4731	0	PHE			11.804	69.960	83.911	1.00 45.53	ŏ
ATOM	4732	CB	PHE	В	229	8.696	70.755	83.318	1.00 51.04	С
ATOM	4733	CG	PHE	В	229	8.043	71.005	84.648	1.00 68.22	С
ATOM	4734	CDI	PHE	R	229	7.596	72.281	84.986	1.00 77.87	С
	4735		PHE			7.889	69.974	85.572	1.00 79.81	Ċ
ATOM										č
MOTA	4736	CE1	PHE			7.005	72.528	86.224	1.00 86.97	Č
MOTA	4737	CE2	PHE	В	229	7.296	70.210	86.819	1.00 86.80	С
ATOM	4738	CZ	PHE	В	229	6.856	·71.486	87.143	1.00 90.80	С
ATOM	4739	N	ALA			10.930	71.403	85.422	1.00 42.28	N
			ALA			11.769	71.006	86.564	1.00 47.28	c
ATOM	4740	CA								č
ATOM	4741	C	ALA			12.075	69.521	86.634	1.00 50.55	
ATOM	4742	0	ALA			11.433	68.708	85.963	1.00 57.81	0
ATOM	4743	CB	ALA	В	230	11.120	71.448	87.869	1.00 46.60	С
MOTA	4744	N	ASP	R	231	13.053	69.164	87.461	1.00 46.30	N
ATOM	4745	CA	ASP			13.424	67.762	87.602	1.00 47.24	C
										č
ATOM	4746	Ç	ASP			12.220	66.911	87.964	1.00 44.91	
ATOM	4747	0	ASP			11.121	67.419	88.208	1.00 46.32	0
ATOM	4748	CB	ASP	В	231	14.501	67.605	88.664	1.00 56.16	c c
ATOM	4749	CG	ASP			15.725	68.403	88.334	1.00 61.99	C
						16.186	68.271	87.185	1.00 64.34	ŏ
MOTA	4750		ASP							ŏ
MOTA	4751		ASP			16.221	69.159	89.195	1.00 73.15	
ATOM	4752	N	ILE	В	232	12.436	65.606	88.006	1.00 36.13	N
ATOM	4753	CA	ILE			11.354	64.693	88.314	1.00 27.43	С
ATOM	4754	Ċ	ILE			11.698	63.756	89.482	1.00 27.62	Ċ
			ILE				63.073	89.471	1.00 26.64	ñ
MOTA	4755	0				12.726				č
MOTA	4756	CB	ILE			10.969	63.897	87.022	1.00 25.17	Ç
MOTA	4757	CG1	ILE	В	232	9.834	62.915	87.311	1.00 17.61	С
MOTA	4758		ILE			12.195	63.188	86.475	1.00 37.00	С
ATOM	4759		ILE			9.209	62.355	86.047	1.00 34.79	C C C
ATOM	4760	N	ASP			10.830	63.768	90.495	1.00 33.04	N
ATOM	4761	CA	ASP	В	233	10.977	62.935	91.687	1.00 34.79	C
MOTA	4762	C	ASP			10.447	61.553	91.370	1.00 30.20	Ċ
ATOM	4763	ō	ASP			9.785	61.362	90.351	1.00 28.34	0
MOTA						10.136	63.467	92.850	1.00 50.15	č
	4764	CB	ASP							
MOTA	4765	CG	ASP	В	233	10.531	64.860	93.286	1.00 67.23	С

1 mov	4766	001			222	11 660	CE 043	03.300		77 00	0	
ATOM	4766		ASP			11.660	65.043	93.798		73.80		
MOTA	4767		ASP		233	9.697	65.777	93.116		75.06	0	
MOTA	4768	N	ASP		234	10.733	60.587	92.238		28.34	N	
MOTA	4769	CA	ASP		234	10.209	59.244	92.032		26.19	C	
MOTA	4770	C	ASP		234	8.867	59.339	92.747		24.68	C	
ATOM	4771	0	ASP		234	8.659	58.735	93.803		20.48	0	
MOTA	4772	CB	ASP		234	11.113	58.198	92.688		25.05	Ċ	
ATOM .	4773	CG	ASP		234	10.676	56.787	92.372		27.09	С	
MOTA	4774		ASP		234	9.949	56.597	91.363	1.00	31.30	0	
MOTA	4775	OD2	ASP		234	11.062	55.871	93.127	1.00	21.84	0	
MOTA	4776	N	SER	В	235	7.970	50.131	92.160	1.00	25.37	N	
MOTA	4777	ÇA	SER			6.661	60.390	92.743		26.92	С	
ATOM	4778	С	SER	В	235	5.562	60.595	91.718	1.00	28.46	С	
MOTA	4779	0	SER	В	235	5.818	61.008	90.589	1.00	32.06	0	
MOTA	4780	CB	SER	В	235	6.752	61.654	93.595	1.00	29.39	С	
MOTA	4781	OG	SER	В	235	7.218	62.732	92.785	1.00	23.53	0	
ATOM	4782	N	TRP	В	236	4.329	60.339	92.137	1.00	22.81	N	
ATOM	4783	CA	TRP	В	236	3.177	60.532	91.265	1.00	24.83	C	
ATOM	4784	С	TRP		236	2.977	62.036	91.038	1.00	28.40	С	
ATOM	4785	Ō	TRP			2.758	62.487	89.909	1.00	31.87	0	
ATOM	4786	CB	TRP			1.933	59.917	91.911	1.00	33.78	С	
ATOM	4787	CG	TRP			0.644	60.043	91.126	1.00	33.53	С	
MOTA	4788		TRP		236	-0.602	60.219	91.645	1.00	34.90	С	
MOTA	4789		TRP		236	0.473	59.964	89.701	1.00	28.06	C	
MOTA	4790		TRP		236	-1.540	60.256	90.640		22.72	N	
ATOM	4791		TRP		236	-0.910	60.101	89.436		24.75	С	
MOTA	4792				236	1.350	59.791	88.623		36.82	Ċ	
ATOM	4793		TRP		236	-1.441	60.070	88.142		24.24	Č	
ATOM	4794	CZ3	TRP		236	0.824	59.760	87.329		38.70	č	
ATOM	4795		TRP		236	-0.565	59.900	87.104		28.28	Ċ	
ATOM	4796	N	LYS		237	3.080	62.805	92.116		30.75	N	
ATOM	4797	CA	LYS			2.923	64.252	92.053		35.49	Ċ	
ATOM	4798	Ċ	LYS			3.789	64.840	90.948		36.92	Ċ	
ATOM	4799	ō	LYS		237	3.280	65.428	89.989		39.03	ō	
ATOM	4800	СВ	LYS		237	3.320	64.871	93.388		43.96	č	
ATOM	4801	CG	LYS		237	3.204	66.381	93.443		58.69	· č	
	4802	CD	LYS		237	3.590	66.884	94.820		76.84	č	
ATOM ATOM	4803	CE	LYS		237	3.428	68.388	94.940		86.11	č	
ATOM	4804	NZ	LYS		237	3.684	68.844	96.338		87.61	N	
	4805	N	SER			5.100	54.667	91.091		38.16	· N	
ATOM ATOM	4806	CA	SER		238	6.061	65.178	90.121		40.77	č	
ATOM	4807	C	SER		238	5.616	64.875	88.690		37.84	č	
ATOM	4808	ŏ	SER		238	5.765	65.703	87.781		44.27	õ	
ATOM	4809	СВ	SER		238	7.437	64.566	90.376		37.16	č	
ATOM	4810	OG	SER		238	8.409	65.123	89.508		54.89	ŏ	
ATOM	4811	N	ILE		239	5.049	63.694	88.483		27.75	Ň	
ATOM	4812	CA	ILE		239	4.592	63.343	87.150		28.70	c 	
	4813	C	ILE		239	3.340	64.110	86.775		26.04	č	
ATOM			ILE			3.253	54.682	85.684		17.63	ŏ	
MOTA	4814	0			239	4.349	61.829	87.021		22.63	· č	
MOTA	4815	CB	ILE		239 239	5.690	61.148	86.726		25.11	· c	
MOTA	4816	CG1				3.303	61.545	85.948		11.50	č	
MOTA	4817	CG2			239		59.747	86.171		25.16	č	
ATOM	4818		ILE		239	5.586				31.73	N	
ATOM	4819	N	LYS		240	2.376	64.134	87.684 87.425			Č	
ATOM	4820	CA	LYS			1.145	64.849 66.274	86.976		41.99	č	
ATOM ATOM	4821	C	LYS		240	1.461	66.704	85.908		44.26	ō	
	4822	0	LYS		240	1.015				47.78	č	
ATOM ATOM	4823 4824	CB CG	LYS		240	0.289 -0.052	64.859 63.468	88.683 89.175		53.75	č	
	4825										č	
MOTA		CD	LYS			-0.659	63.497	90.570		53.18	č	
MOTA	4826	CE	LYS			-1.933	64.328	91.950		55.99	N	
ATOM	4827	NZ	LYS			-2.566	64.347 66.996	87.769		43.28	N	
ATOM	4828	N	SER			2.252	68.374	87.428			c	
ATOM	4829	CA	SER			2.601	68.483	86.026		46.91	Ċ	
ATOM	4830	Č	SER			3.186					ŏ	
ATOM	4831	0	SER			2.803	69.375	85.274		49.64	c	
ATOM	4832	CB	SER			3.578	68.960	88.445		48.56	0	
MOTA	4833	OG	SER			. 4.779	68.217	88.500		59.61	N	
ATOM	4834	N	ILE			4.099	67.583	85.665		37.40	C	
MOTA	4835	CA	ILE			4.690	67.616	84.323		31.79	c	
MOTA	4836	C	ILE			3.611	67.464	83.253		31.03	0	
MOTA	4837	0	ILE			3.588	68.217	82.268 84.142		25.40 32.20	c	
MOTA	4838	CB	ILE			5.773	66.514				c	,
ATOM	4839		ILE			7.107	67.024 66.132	84.694 82.674		39.49 21.06	c	,
ATOM	4840 4841		ILE			5.928 8.265	66.077	84.492		41.24	ċ	
ATOM			ILE				66.499	83.431		28.87	N	
ATOM .	4842	N	LEU			2.714	66.344	82.450		26.17	C	
MOTA	4843	CA	LEU			1.648	67.651	82.388		23.84	c	
MOTA MOTA	4844	C	LEU			0.873	68.329	81.356	1.00	7.14	0	
MOTA	4845 4846	O CB	LEU			0.876 0.714	65.202	82.827		26.24	C	
A I OF	4040	CB	العد	٥	-47	0.714	33.202	52.021	1.00	20.27	C	

HOTA	4847	CG	LEU	В	243	1.200	63.829	82.375	1.00 21.83	С
MOTA	4848	CD1	LEU	В	243	0.218	62.810	82.822	1.00 22.96	С
MOTA	4849	CD2	LEU	В	243	1.325	63.778	80.866	1.00 28.88	С
MOTA	4850	N	ASP	В	244	0.236	68.014	83.500	1.00 20.78	N
MOTA	4851	CA	ASP	В	244	-0.542	69.248	83.558	1.00 28.25	С
MOTA	4852	С	ASP			0.214	70.423	82.951	1.00 32.60	С
MOTA	4853	0	ASP			-0.324	71.147	82.105	1.00 37.00	0
MOTA	4854	CB	ASP		244	-0.942	69.550	85.001	1.00 31.66	C
MOTA	4855	CC	ASP		244	-1.716	68.410	85.626	1.00 33.89	C
MOTA	4856		ASP			-2.683	67.938	84.993	1.00 35.75	0
MOTA	4857		ASP			-1.367	67.978	86.743	1.00 41.32	0
MOTA	4858	N	TRP			1.462	70.603	83.372	1.00 38.51	N
ATOM	4859	CA	TRP TRP			2.288 2.372	71.679	82.845	1.00 46.62	c c
MOTA MOTA	4860 4861	C 0	TRP			2.039	71.533 72.465	81.321 80.582	1.00 49.26	ŏ
MOTA	4862	СВ	TRP			3.700	71.636	83.443	1.00 61.17	č
MOTA	4863	CG	TRP			4.533	72.799	83.004	1.00 88.13	č
ATOM	4864		TRP			4.596	74.028	83.594	1.00 96.89	Ċ
MOTA	4865		TRP			5.329	72.883	81.813	1.00 99.28	Ċ
ATOM	4866	NE1	TRP		245	5.377	74.877	82.839	1.00106.39	N
MOTA	4867	CE2	TRP	В	245	5.839	74.198	81.741	1.00105.58	С
MOTA	4868	CE3	TRP	В	245	5.657	71.976	80.797	1.00102.70	Ċ
MOTA	4869	CZ2	TRP	В	245	6.660	74.628	80.691	1.00110.26	С
MOTA	4870	CZ3	TRP			6.473	72.403	79.753	1.00103.34	Ċ
ATOM	4871	CH2	TRP			6.964	73.718	79.709	1.00110.36	C
MOTA	4872	N	THR			2.812	70.371	80.844	1.00 47.19	N
MOTA	4873	CA	THR			2.915	70.160	79.404	1.00 48.24	C
MOTA	4874	Ċ	THR			1.544	70.300	78.758	1.00 51.43	C
ATOM	4875	0	THR		246	1.403	70.935	77.707	1.00 53.04	0
MOTA	4876	CB	THR			3.530	68.766	79.078	1.00 45.41	C
MOTA	4877		THR			4.919	68.922 68.115	78.749 77.901	1.00 51.10	0 C
MOTA MOTA	4878 4879	CG2 N	SER		247	2.831 0.535	69.725	79.406	1.00 42.73	N
ATOM	4880	CA	SER			-0.835	69.780	78.901	1.00 54.33	Č
MOTA	4881	C	SER			-1.222	71.219	78.577	1.00 52.57	č
ATOM	4882	ŏ	SER			-1.774	71.503	77.494	1.00 46.52	ŏ
ATOM	4883	СB	SER			-1.796	69.205	79.939	1.00 58.27	Ċ
ATOM	4884	OG	SER			-3.072	69.010	79.379	1.00 68.82	0
ATOM	4885	N	PHE	В	248	-0.916	72.113	79.520	1.00 52.38	N
MOTA	4886	CA	PHE	В	248	-1.200	73.541	79.384	1.00 53.08	C
MOTA	4887	С	PHE	В	248	-0.056	74.345	78.707	1.00 47.47	С
MOTA	4888	0	PHE	В	248	0.340	75.415	79.167	1.00 48.64	0
MOTA	4889	CB	PHE			-1.543	74.131	80.768	1.00 62.47	c
MOTA	4890	CG			248	-1.604	75.640	80.797	1.00 67.88	c c
MOTA	4891		PHE		248	-2.481	76.342	79.962	1.00 77.15	C
ATOM	4892		PHE			-0.741	76.361	81.617	1.00 60.79	C
MOTA	4893		PHE			-2.491	77.747 77.757	79.943	1.00 78.98	C
ATOM	4894		PHE			-0.741	78.451	81.608 80.769	1.00 70.08	c
ATOM	4895 4896	CZ	PHE			-1.616 0.487	73.824	77.613	1.00 40.98	N
MOTA MOTA	4897	N CA	ASN			1.528	74.549	76.903	1.00 36.61	Ċ
MOTA	4898	c	ASN			1.728	74.118	75.475	1.00 41.21	č
ATOM	4899	ŏ	ASN			2.398	74.802	74.715	1.00 37.57	ō
ATOM	4900	СВ	ASN			2.853	74.459	77.642	1.00 32.34	Ċ
ATOM	4901	CG	ASN			3.032	75.579	78.621	1.00 39.45	С
MOTA	4902	OD1	ASN	В	249	2.839	76.741	78.280	1.00 53.83	0
MOTA	4903	ND2	ASN	В	249	3.405	75.245	79.842	1.00 32.18	N
ATOM	4904	N	GLN	В	250	1.138	72.990	75.106	1.00 51.49	N
ATOM	4905	CA	GLN			1.268	72.473	73.748	1.00 54.53	Ċ
MOTA	4906	C	GLN			1.378	73.562	72.680	1.00 56.62	c
MOTA	4907	0	GLN			2.160	73.429	71.745	1.00 58.26	0
MOTA	4908	CB	GLN			0.101	71.532	73.428	1.00 52.25	c
MOTA	4909	CG	GLN		250	-1.071	71.642	74.400	1.00 46.12	c c
ATOM	4910	CD	GLN		250	-2.072	70.521	74.223	1.00 42.95	ò
MOTA	4911		CLN		250	-1.716	69.341 70.883	74.272 74.014	1.00 41.42	N
MOTA	4912		GLN			-3.333	74.649	72.823	1.00 60.83	N
MOTA MOTA	4913 4914	N CA	CLU			0.611 0.655	75.734	71.855	1.00 66.60	č
ATOM	4915	c	CLU		251	2.071	75.992	71.385	1.00 66.06	č
HOTA	4916	ŏ	GLU			2.354	75.908	70.197	1.00 72.41	ō
MOTA	4917	СВ	GLU		251	0.100	77.030	72.459	1.00 77.84	С
MOTA	4918	CG	GLU		251	-1.399	77.224	72.296	1.00 87.92	C
MOTA	4919	CD	GLU	В		-2.207	76.123	72.950	1.00 97.98	C
MOTA	4920		GLU		251	-2.079	74.957	72.516	1.00102.31	0
MOTA	4921		GLU		251	-2.968	76.421	73.900	1.00105.99	0
ATOM	4922	N	ARG		252	2.962	76.287	72.326	1.00 61.86	N
ATOM	4923	CA	ARG			4.354	76.595	72.005 71.704	1.00 63.12	C C
MOTA MOTA	4924 4925	C	ARG ARG			5.265 6.085	75.419 75.483	70.789	1.00 59.63	٥
MOTA	4925	O CB	ARG			5.003	77.386	73.138	1.00 70.07	c
MOTA	4927	CG	ARG			4.302	78.659	73.506	1.00 82.92	č
				-		7.504				_

MOTA	4928	CD	ARG	B 252	5.048	79.344	74.624	1.00 92.51	С
MOTA	4929	NE		B 252	4.238	80.392	75.228	1.00106.07	N
MOTA	4930	CZ	ARG	B 252	3.073	80.182	75.837	1.00111.28	С
MOTA	4931	NHI	ARG	B 252	2.576	78.955	75.926	1.00112.64	N
MOTA	4932			B 252	2.402	81.201	76.356	1.00118.84	N
ATOM	4933	N	ILE	B 253	5.134	74.344	72.466	1.00 51.23	N
MOTA	4934	CA	TLE	B 253	6.014	73.206	72.278	1.00 46.86	С
MOTA	4935	С		B 253	5.591	72.105	71.322	1.00 52.26	С
MOTA	4936	0	ILE	B 253	6.290	71.826	70.352	1.00 54.80	0
				B 253	6.332	72.564	73.621	1.00 37.51	Ċ
MOTA	4937	CB							Č
ATOM	4938	CG1	ILE	B 253	5.037	72.266	74.368	1.00 35.63	С
ATOM	4939	CG2	TLE	B 253	7.210	73.491	74.442	1.00 35.75	С
									č
MOTA	4940			B 253	5.259	71.630	75.708	1.00 50.20	С
ATOM	4941	N	VAL	B 254	4.456	71.475	71.601	1.00 57.96	N
ATOM	4942	CA		B 254	3.944	70.370	70.784	1.00 63.04	c
									=
ATOM	4943	С	VAL	B 254	4.249	70.475	69.294	1.00 62.84	С
ATOM	4944	0	VAL	B 254	4.413	69.464	68.603	1.00 62.31	0
ATOM	4945	ČВ		B 254	2.416	70.232	70.927	1.00 63.66	Č
									2
ATOM	4946	CG1	VAL	B 254	1.709	71.199	69.963	1.00 71.38	С
MOTA	4947	CG2	VAI.	B 254	2.004	68.796	70.665	1.00 62.89	С
ATOM	4948	N			4.326	71.711	68.815	1.00 64.03	N
				B 255					14
MOTA	4949	CA	ASP	B 255	4.576	72.011	67.413	1.00 66.53	С
ATOM	4950	С	ASP	B 255	6.011	71.803	66.911	1.00 63.06	С
							66.012	1.00 65.92	Õ
MOTA	4951	0		B 255	6.245	71.002			Ž
ATOM	4952	CB	ASP	B 255	4.152	73.449	67.144	1.00 76.95	С
ATOM	4953	CG	ASP	B 255	3.518	73.614	65.798	1.00 84.76	С
									Ö
MOTA	4954			B 255	3.320	74.769	65.366	1.00 92.91	
MOTA	4955	OD2	ASP	B 255	3.210	72.578	65.180	1.00 84.06	0
ATOM	4956	N	VAI.	B 256	6.959	72.534	67.491	1.00 55.56	N
MOTA	4957	CA		B 256	8.368	72.446	67.105	1.00 42.48	C
ATOM	4958	С	VAL	B 256	8.983	71.059	67.301	1.00 41.65	С
MOTA	4959	0	VAT	B 256	10.195	70.883	67.195	1.00 36.11	0
									č
ATOM	4960	CB		B 256	9.206	73.466	67.898	1.00 39.75	c c
MOTA	4961	CG1	VAL	B 256	8.994	74.864	67.336	1.00 46.21	С
ATOM	4962			B 256	8.806	73.427	69.350	1.00 37.08	С
									N.
ATOM	4963	N		B 257	8.145	70.074	67.585	1.00 45.55	N
ATOM	4964	CA	ALA	B 257	8.613	68.715	67.791	1.00 46.48	С
ATOM	4965	C		B 257	8.669	67.932	66.482	1.00 45.47	С
									č
ATOM	4966	0	ALA	B 257	7.769	68.024	65.651	1.00 45.44	0
ATOM	4967	CB	ALA	B 257	7.704	68.014	68.766	1.00 47.89	С
				B 258	9.725	67.147	66.311	1.00 40.90	N
MOTA	4968	N							
ATOM	4969	CA	GLY	B 258	9.878	66.357	65.105	1.00 43.33	C
ATOM	4970	С	GI.Y	B 258	11.314	65.889	64.999	1.00 47.01	С
									ō
MOTA	4971	0		B 258	12.145	66.293	65.809	1.00 49.36	
MOTA	4972	N	PRO	B 259	11.646	65.045	64.013	1.00 47.91	N
MOTA	4973	CA		B 259	13.002	64.527	63.818	1.00 51.95	С
									č
ATOM	4974	С		B 259	14.115	65.546	64.022	1.00 51.79	C
ATOM	4975	0	PRO	B 259	14.022	66.681	63.556	1.00 51.46	0
ATOM	4976	ĊВ		B 259	12.949	64.002	62.399	1.00 51.34	С
									ž
ATOM	4977	CG	PRO	B 259	11.592	63.428	62.349	1.00 52.80	С
ATOM	4978	CD	PRO	B 259	10.742	64.505	62.988	1.00 48.81	С
ATOM	4979	N		B 260	15.167	65.129	64.721	1.00 48.65	N
ATOM	4980	CA		B 260	16.278	66.019	64.975	1.00 43.90	C
ATOM	4981	С	GLY	B 260	16.125	66.724	66.306	1.00 42.81	С
ATOM	4982	ō		B 260	17.087	66.837	67.057	1.00 47.41	0
MOTA	4983	N		B 261	14.916	67.197	66.601	1.00 37.57	N
ATOM	4984	CA	GLY	B 261	14.666	67.895	67.858	1.00 40.11	С
ATOM	4985	C		B 261	13.399	67.464	68.585	1.00 40.00	С
									ō
ATOM	4986	0		B 261	12.316	67.446	68.004	1.00 40.66	
ATOM	4987	N	TRP	B 262	13.520	67.135	69.866	1.00 35.86	N
ATOM	4988	CA		B 262	12.359	66.683	70.622	1.00 34.24	С
						67.402	71.937	1.00 31.66	č
MOTA	4989	Ċ		B 262	12.133				
ATOM	4990	0		B 262	13.048	67.996	72.510	1.00 28.45	0
MOTA	4991	СВ		B 262	12.482	65.199	70.951	1.00 32.57	Ċ
									č
MOTA	4992	CG		B 262	12.942	64.349	69.828	1.00 30.95	Č
MOTA	4993	CD1	TRP	B 262	14.204	63.853	69.630	1.00 31.59	Č
ATOM	4994			B 262	12.142	63.849	68.757	1.00 32.51	С
									N
MOTA	4995			B 262	14.231	63.069	68.506	1.00 31.69	N
MOTA	4996	CE2	TRP	B 262	12.977	63.050	67.951	1.00 30.51	С
ATOM	4997			B 262	10.795	63.993	68.403	1.00 37.67	С
									č
MOTA	4998			B 262	12.507	62.399	66.806	1.00 38.08	Ľ
ATOM	4999	CZ3	TRP	B 262	10.328	63.342	67.262	1.00 36.12	Ċ
ATOM	5000			B 262	11.182	62.555	66.481	1.00 38.79	Ċ
ATOM	5001	N		B 263	10.897	67.330	72.420	1.00 27.62	N
ATOM	5002	CA	ASN	B 263	10.553	67.916	73.706	1.00 29.78	С
ATOM	5003	C		B 263	10.881	66.844	74.721	1.00 30.61	С
							74.587		ŏ
MOTA	5004	0		B 263	10.416	65.707		1.00 34.51	ū
MOTA	5005	CB	ASN	B 263	9.070	68.252	73.766	1.00 27.54	С
ATOM	5006	CG		B 263	8.796	69.689	73.400	1.00 18.61	С
					9.417		73.949		ŏ
ATOM	5007			B 263		70.599		1.00 19.50	
MOTA	5008	ND2	ASN	B 263	7.861	69.910	72.484	1.00 3.57	N

ATOM	5009	N	ASP	D	264	11 600	62 200	76 777	1.00 29.	20 M
						11.680	67.200	75.727		
MOTA	5010	CA	ASP			12.107	66.241	76.744	1.00 33.	
MOTA	5011	C	ASP			11.641	66.514	78.178	1.00 23.	
MOTA	5012	0	ASP			12.137	67.425	78.838	1.00 16.	
MOTA	5013	CB	ASP	В	264	13.635	66.115	76.658	1.00 38.	21 C
ATOM	5014	CG	ASP	В	264	14.274	65.627	77.941	1.00 44.	50 C
ATOM	5015	OD1	ASP	В	264	13.840	64.596	78.506	1.00 43.	89 0
ATOM	5016		ASP			15.244	66.288	78.373	1.00 44.	
ATOM	5017	N	PRO			10.677	65.701	78.671	1.00 16.	
ATOM	5018	CA	PRO						1.00 23.	
						10.021	65.698	79.994		
MOTA	5019	Ç	PRO			10.999	65.414	81.123	1.00 31.	
MOTA	5020	0_	PRO			11.084	66.150	82.112	1.00 36.	
MOTA	5021	СВ	PRO			8.992	64.569	79.872	1.00 15.	
MOTA	5022	CG	PRO			8.702	64.519	78.401	1.00 17.	
MOTA	5023	CD	PRO	В	265	10.077	64.660	77.819	1.00 19.	
MOTA	5024	N	ASP	В	266	11.699	64.298	80.953	1.00 31.	98 N
MOTA	5025	CA	ASP	В	266	12.719	63.814	81.869	1.00 32.	87 C
MOTA	5026	С	ASP	В	266	12.789	62.291	81.881	1.00 37.	
ATOM	5027	0	ASP			12.058	61.599	81.153	1.00 33.	
ATOM	5028	СВ	ASP		266	12.514	64.327	83.295	1.00 32.	
ATOM	5029	CG	ASP		266	13.831	64.658	83.963	1.00 35.	35 C
ATOM	5030		ASP			14.861		83.472	1.00 19.	
							64.131			
ATOM	5031		ASP		266	13.843	65.419	84.963	1.00 48.	
ATOM	5032	N	MET		267	13.680	61.777	82.718	1.00 40.	
ATOM	5033	CA	MET			13.886	60.348	82.830	1.00 36.	
MOTA	5034	C	MET		267	12.617	59.566	83.150	1.00 35.	
ATOM	5035	0			267	11.600	60.131	83.559	1.00 33.	
ATOM	5036	CB	MET	В	267	14.950	60.093	83.889	1.00 33.	
ATOM	5037	CG	MET	В	267	16.236	60.849	83.611	1.00 37.	20 C
ATOM	5038	SD	MET	В	267	17.220	61.194	85.089	1.00 52.	
MOTA	5039	CE	MET			16.578	62.777	85.531	1.00 54.	
MOTA	5040	N	LEU	В	268	12.692	58.258	82.925	1.00 28.	
ATOM	5041	CA	LEU		1	11.602	57.334	83.203	1.00 20.	
ATOM	5042	c c	LEU			11.910	56.720	84.571	1.00 25.	
ATOM	5043	ŏ	LEU			12.890	55.985	84.730	1.00 34.	
	5044	СВ				11.537	56.234	82.134		31 C
MOTA	-		LEU							
ATOM	5045	CG	LEU			10.921	56.641	80.795	1.00 10.	
ATOM	5046	CD1	LEU			10.884	55.464	79.832	1.00 16.	37 C
ATOM	5047		LEU			9.507	57.143	81.040	1.00 11.	
MOTA	5048	N	VAL			11.079	57.032	85.560	1.00 25.	
ATOM	5049	CA	VAL	В	269	11.289	56.527	86.900	1.00 32.	25 C
MOTA	5050	С	VAL	₿	269	10.592	55.199	87.161	1.00 29.	26 C
MOTA	5051	0	VAL	В	269	10.437	54.778	88.305	1.00 29.	
ATOM	5052	CB	VAL	В	269	10.815	57.546	87.914	1.00 41.	96 C
ATOM	5053		VAL			11.434	58.895	87.600	1.00 46.	
ATOM	5054		VAL			9.316	57.633	87.884	1.00 49.	
ATOM	5055	N	ILE			10.164	54.545	86.091	1.00 25.	
ATOM	5056	CA	ILE			9.500	53.247	86.186	1.00 28.	
ATOM	5057	c	ILE			10.525	52.188	86.593	1.00 27.	
	5058									
ATOM		0	ILE			11.608	52.100	86.012	1.00 31.	
ATOM	5059	CB	ILE			8.880	52.849	84.825	1.00 30.	
ATOM	5060	CG1	ILE			7.737	53.805	84.470	1.00 41.	
ATOM	5061	CG2	ILE			8.381	51.429	84.873	1.00 31.	
MOTA	5062		ILE			7.289	53.733	83.016	1.00 46.	
ATOM	5063	N	GLY			10.192	51.382	87.592	1.00 25.	
ATOM	5064	CA	GLY			11.124	50.355	88.022	1.00 25.	
ATOM	5065	С	GLY			11.692	50.663	89.385	1.00 30.	
MOTA	5066	0	GLY	В	271	12.432	49.863	89.955	1.00 32.	
ATOM	5067	N	ASN			11.344	51.845	89.885	1.00 35.	
ATOM	5068	CA	ASN	В	272	11.770	52.307	91.196	1.00 41.	44 C
ATOM	5069	С	ASN	В	272	10.708	51.959	92.227	1.00 43.	88 C
MOTA	5070	0	ASN			10.193	50.846	92.226	1.00 50.	
MOTA	5071	СВ	ASN			12.012	53.809	91.180	1.00 47.	
MOTA	5072	CG	ASN			13.327	54.166	90.558	1.00 52.	95 C
ATOM	5073		ASN			13.674	53.664	89.489	1.00 61.	
ATOM	5074		ASN			14.073	55.041	91.218	1.00.49.	
ATOM	5075	N	PHE			10.345	52.914	93.077	1.00 40.	
ATOM	5076	CA	PHE			9.374	52.644	94.130	1.00 45.	
ATOM	5077					8.260	53.651	94.287	1.00 43.	
ATOM	5077	C	PHE				53.313	94.775		
		0	PHE			7.190			1.00 55.	03 0
ATOM	5079	CB	PHE			10.091	52.517	95.478	1.00 48.	
MOTA	5080	CG	PHE			11.593	52.623	95.382	1.00 50.	45 C
ATOM	5081		PHE			12.403	51.634	95.920	1.00 48.	
ATOM	5082		PHE			12.198	53.698	94.728	1.00 52.	22 C
ATOM	5083		PHE			13.790	51.704	95.808	1.00 50.	
ATOM	5084		PHE			13.586	53.778	94.608	1.00 61.	31 C
MOTA	5085	CZ	PHE			14.382	52.776	95.149	1.00 59.	
MOTA	5086	N	GLY			8.513	54.888	93.889	1.00 46.	
ATOM	5087	CA	GLY	В	274	7.509	55.925	94.040	1.00 35.	
MOTA	5088	С	GLY	В	274	6.213	55.756	93.269	1.00 31.	
MOTA	5089	0	GLY	В	274	5.185	56.352	93.633	1.00 33.	90 0

MOTA	5090	N	LEU	-	275	6.239	54.941	92.218	1 00	28.97	M
ATOM	5091	CA									N
	5092		LEU		275	5.038	54.744	91.419		26.12	c
ATOM		C	LEU		275	4.311	53.425	91.608		28.74	C
MOTA	5093	0	LEU			4.931	52.372	91.748		31.57	0
MOTA	5094	CB	LEU			5.369	54.930	89.945		26.02	C
ATOM	5095	CG	LEU			5.958	56.304	89.620		23.75	Č
MOTA	5096		LEU		275	5.811	56.551	88.130		28.23	Č
ATOM	5097	CD2	LEU			5.231	57.396	90.414		22.80	С
ATOM	5098	N	SER	В	276	2.986	53.498	91.630	1.00	28.06	N
ATOM	5099	CA	SER	В	276	2.182	52.302	91.770	1.00	36.79	C C 0
ATOM	5100	С	SER	В	276	2.153	51.726	90.367	1.00	40.22	С
MOTA	5101	0	SER	В	276	2.698	52.314	89.440	1.00	38.89	0
ATOM	5102	CB	SER	В	276	0.766	52.652	92.181	1.00	40.24	Ċ
MOTA	5103	OG	SER	В	276	0.083	53.229	91.078	1.00	45.11	0
ATOM	5104	N	TRP	В	277	1.493	50.589	90.206	1.00	43.13	N
ATOM	5105	CA	TRP	В	277	1.422	49.965	88.907		39.95	С
MOTA	5106	С	TRP	В	277	0.660	50.820	87.936		36.27	C C
MOTA	5107	0	TRP	В	277	1.149	51.135	86.845		35.96	ō
ATOM	5108	СВ	TRP			0.732	48.612	88.972		46.97	С
ATOM	5109	ÇĞ	TRP			0.617	48.018	87.607		46.70	0000
MOTA	5110		TRP			-0.530	47.728	86.928		46.98	č
ATOM	5111		TRP		277	1.701	47.695	86.725		48.84	č
ATOM	5112		TRP		277	-0.230	47.244	85.674		45.37	N
ATOM	5113	CE2	TRP		277	1.132	47.214	85.523		48.55	ë
ATOM	5114	CE3			277	3.099	47.768	86.835		49.30	C C
ATOM	5115		TRP		277	1.912	46.806	84.435		44.51	č
	5116				277	3.874	47.365	85.759		45.41	C C
ATOM	5117	CZ3	TRP		277	3.276	46.889	84.570		42.60	č
MOTA					278	-0.556	51.177	88.314		32.20	N
ATOM	5118	N	ASN			-1.359	51.984			31.29	č
ATOM	5119	CA			278		53.268	87.423 87.060			ċ
ATOM	5120	C	ASN		278	-0.672 -0.885	53.804	85.975		31.61	o
ATOM	5121	0	ASN		278						
MOTA	5122	CB	ASN		278	-2.693 -3.697	52.278 51.231	88.059		36.76	C
ATOM	5123	CG	ASN		278			87.735		37.14	
ATOM	5124		ASN		278	-4.181	51.161	86.604		30.93	0
ATOM	5125		ASN		278	-4.006	50.379	88.714		42.27	N
MOTA	5126	N	GLN			0.171	53.742	87.970		32.31	N
MOTA	5127	CA	GLN		279	0.897	54.978	87.759		31.16	c
ATOM	5128	С	GLN		279	2.053	54.829	86.775		34.55	C
ATOM	5129	0	GLN		279	2.360	55.757	86.035		31.95	0
ATOM	5130	CB	GLN		279	1.390	55.506	89.099		19.15	С
MOTA	5131	CG	GLN	В	279	0.288	56.135	89.909	1.00	3.31	С
ATOM	5132	CD	GLN			0.619	56.185	91.367	1.00	4.33	С
MOTA	5133		GLN		279	1.751	56.473	91.743	1.00	20.32	0
MOTA	5134	NE2	GLN	В	279	-0.371	55.907	92.211	1.00	9.62	N
MOTA	5135	N	GLN	В	280	2.682	53.659	86.757	1.00	35.28	N
MOTA	5136	CA	GLN	В	280	3.795	53.414	85.851		28.21	С
ATOM	5137	С	GLN	В	280	3.335	53.340	84.390	1.00	33.39	С
ATOM	5138	0	GLN	В	280	3.913	53.998	83.513	1.00	29.04	0
ATOM	5139	CB	GLN	В	280	4.517	52.119	86.232	1.00	19.60	С
ATOM	5140	CG	GLN	В	280	5.061	52.098	87.637	1.00	25.07	С
ATOM	5141	CD	GLN	В	280	5.960	50.915	87.897	1.00	33.96	С
ATOM	5142	OE1	GLN	В	280	7.058	50.830	87.351	1.00	39.59	0
MOTA	5143	NE2	GLN	В	280	5.498	49.987	88.727	1.00	35.05	N
MOTA	5144	N	VAL	В	281	2.300	52.550	84.118	1.00	33.52	N
ATOM	5145	CA	VAL	В	281	1.822	52.445	82.744	1.00	33.85	С
MOTA	5146	С	VAL			1.543	53.841	82.219	1.00	32.53	C
MOTA	5147	0	VAL	В	281	1.828	54.158	81.072	1.00	34.07	0
ATOM	5148	CB	VAL			0.526	51.599	82.638	1.00	31.50	С
ATOM	5149	CG1	VAL			0.697	50.324	83.426	1.00	32.91	C
ATOM	5150		VAL			-0.682	52.392	83.126	1.00	33.47	С
MOTA	5151	N	THR			0.992	54.677	83.086		23.34	N
ATOM	5152	CA	THR			0.664	56.036	82.714	1.00	12.70	С
ATOM	5153	C	THR			1.873	56.762	82.134		11.31	С
ATOM	5154	Ō	THR			1.831	57.183	80.981		17.88	0
ATOM	5155	CB	THR			0.135	56.826	83.920	1.00	15.31	С
ATOM	5156		THR			-0.916	56.093	84.564		16.34	0
ATOM	5157		THR			-0.406	58.160	83.465		17.32	č
MOTA	5158	N	GLN			2.948	56.898	82.916	1.00	4.99	N
ATOM	5159	CA	GLN			4.148	57.593	82.428		10.41	С
ATOM	5160	c.	GLN			4.606	57.030	81.084		13.30	Č
ATOM	5161	ō	GLN			4.811	57.772	80.126		15.31	ō
ATOM	5162	СВ	GLN			5.327	57.499	83.418	1.00	3.31	č
ATOM	5163	ČĞ	GLN			6.612	58.139	82.837		23.14	č
ATOM	5164	CD	GLN			7.843	58.027	83.732		32.77	č
ATOM	5165		GLN			8.285	56.931	84.071		34.41	ŏ
ATOM	5166		GLN			8.409	59.170	84.103		42.97	N
ATOM	5167	N	MET			4.779	55.714	81.028		15.81	N
ATOM	5168	CA	MET			5.194	55.055	79.803		14.55	Ċ
ATOM	5169	Č	MET			4.225	55.376	78.667		11.07	č
MOTA	5170	ŏ	MET			4.640	55.794	77.596	1.00	5.42	ō

	ATOM	5171	CD	MCW D	204			00 000	1 00 13 60		_
			CB	MET B		5.238	53.546	80.022	1.00 13.69		С
	MOTA	5172	CG	MET B		5.767	52.755	78.844	1.00 8.27		С
	ATOM	5173	SD	MET B		7.559	52.899	78.676	1.00 21.12		s
	ATOM	5174	CE	MET B	284	7.661	53.878	77.067	1.00 26.82		С
	MOTA	5175	N	ALA B	285	2.934	55.171	78.899	1.00 9.54		
	ATOM	5176	CA	ALA B		1.936	55.446	77.878	1.00 12.00		
	ATOM	5177	c	ALA B		2.054		77.374	1.00 13.36		c
							56.872				_
	MOTA	5178	0	ALA B		2.098	57.112	76.160	1.00 17.10		0
	ATOM	5179	CB	ALA B		0.546	55.218	78.428	1.00 23.30		С
	MOTA	5180	N	LEU B	286	2.113	57.825	78.296	1.00 12.23		N
	MOTA	5181	CA	LEU B	286	2.206	59.216	77.887	1.00 14.82	1	С
	ATOM	5182	С	LEU B	286	3.544	59.671	77.306	1.00 18.25		C
	ATOM	5183	0	LEU B		3.551	60.513	76.410	1.00 29.59		ō
	ATOM	5184	СB	LEU B		1.740	60.129	79.018	1.00 19.13		č
	ATOM	5185	CG	LEU B		0.208	60.174	78.942	1.00 12.90		c
	ATOM										_
		5186		LEU B		-0.385	60.212	80.316	1.00 24.27	,	C
	MOTA	5187		LEU B		-0.233	61.371	78.145	1.00 7.95	,	C
	ATOM	5188	N	TRP B		4.671	59.138	77.769	1.00 16.94		N
	ATOM	5189	CA	TRP B	287	5.924	59.560	77.160	1.00 25.08		С
	ATOM	5190	С	TRP B	287	5.850	59.156	75.694	1.00 30.58		C
	ATOM	5191	0	TRP B	287	6.353	59.855	74.810	1.00 37.20		0
	ATOM	5192	СВ	TRP B		7.121	58.894	77.812	1.00 19.43		Ċ
	ATOM	5193	CG	TRP B		7.782	59.744	78.855	1.00 27.34		č
	ATOM	5194		TRP B		9.125	59.961	79.004	1.00 40.95		Ċ
											ž
	MOTA	5195		TRP B		7.145	60.463	79.916	1.00 20.62		С
	ATOM	5196		TRP B		9.370	60.763	80.099	1.00 28.11		N
	MOTA	5197		TRP B		8.173	61.080	80.681	1.00 18.44		C
	MOTA	5198	CE3	TRP B	287	5.814	60.631	80.313	1.00 19.29		С
	ATOM	5199	CZ2	TRP B	287	7.908	61.871	81.794	1.00 22.11		C
	MOTA	5200	CZ3	TRP B	287	5.552	61.417	81.421	1.00 33.41		С
	ATOM	5201		TRP B		6.596	62.022	82.156	1.00 28.12		ċ
	ATOM	5202	N	ALA B		5.204	58.024	75.441	1.00 27.82		N
	ATOM	5203	CA			5.043	57.531	74.084			~
				ALA B					1.00 26.69		<u>_</u>
	ATOM	5204	C	ALA B		4.188	58.509	73.293	1.00 25.25		c
	ATOM	5205	0	ALA B		4.467	58.794	72.124	1.00 19.52		0
	ATOM	5206	СВ	ALA B		4.388	56.167	74.104	1.00 33.43		С
	ATOM	5207	N	ILE B	289	3.142	59.025	73.934	1.00 20.43		
	ATOM	5208	CA	ILE B	289	2.258	59.975	73.266	1.00 23.46		C
	ATOM	5209	С	ILE B	289	3.002	61.256	72.960	1.00 30.21		С
	ATOM	5210	0	ILE B		2.797	61.857	71.907	1.00 39.56		0
	ATOM	5211	ĊВ	ILE B		1.039	60.348	74.125	1.00 20.26		č
	ATOM	5212		ILE B		0.093	59.150	74.233	1.00 20.20		č
											Ċ
	ATOM	5213		ILE B		0.305	61.528	73.488	1.00 17.24		_
	MOTA	5214		ILE B		-0.599	58.824	72.916	1.00 16.19		Ċ
	MOTA	5215	N	MET B		3.871	61.667	73.882	1.00 23.96		
	ATOM	5216	CA	MET B		4.62B	62.900	73.710	1.00 20.64		С
	ATOM	5217	С	MET B	290	6.004	62.752	73.088	1.00 22.98		Ċ
	MOTA	5218	0	MET B	290	6.933	63.463	73.509	1.00 29.05		0
	ATOM	5219	CB	MET B	290	4.815	63.582	75.047	1.00 22.08		Ċ
	ATOM	5220	CG	MET B	290	3.566	63.737	75.855	1.00 21.11		c
	ATOM	5221	SD	MET B		4.061	64.589	77.350	1.00 19.71		c s c
	ATOM	5222	CE	MET B		4.643	63.133	78.403	1.00 3.31		č
	ATOM	5223	N	ALA B		6.135	61.863	72.099	1.00 23.81		
	ATOM	5224	CA	ALA B		7.415	61.638	71.447	1.00 25.68		c
											~
	ATOM	5225	C	ALA B		8.488	62.261	72.329	1.00 23.85		c
	MOTA	5226	0	ALA B		9.094	63.282	71.987	1.00 26.09		ō
	ATOM	5227	СВ	ALA B		7.420	62.278	70.086	1.00 28.53		С
	ATOM	5228	N	ALA B		8.685	61.664	73.497	1.00 21.19		N
	MOTA	5229	CA	ALA B		9.674			1.00 25.88		_
	ATOM	5230	С	ALA B		10.872	61.224	74.482	1.00 22.90		С
	ATOM	5231	0	ALA B	292	10.742	60.030	74.199	1.00 18.54		0
	ATOM	5232	CB	ALA B	292	9.054	62.293	75.817	1.00 31.58		С
	ATOM	5233	N	PRO B		12.060	61.749	74.837	1.00 22.52		N
	ATOM	5234	CA	PRO B		13.217	60.856	74.893	1.00 28.95		С
	MOTA	5235	Ċ	PRO B		12.964	59.820	75.994	1.00 33.22		č
	ATOM	5236	ŏ	PRO B		12.453	60.151	77.066	1.00 37.99		ŏ
	ATOM	5237	СВ	PRO B		14.379		75.237	1.00 37.33		
		5238	CG				61.802	74.783			c
	ATOM			PRO B		13.911	63.147		1.00 35.10		č
	ATOM	5239	CD	PRO B		12.453	63.130	75.179	1.00 29.37		C
	MOTA	5240	N	LEU B		13.315	58.570	75.723	1.00 33.61		N
	ATOM	5241	CA	LEU B		13.121	57.511	76.696	1.00 30.85		с с о
	ATOM	5242	C	LEU B		14.393	57.213	77.455	1.00 29.78		Ç
	ATOM	5243	0	LEU B		15.291	56.524	76.950	1.00 26.27		0
•	MOTA	5244	CB	LEU B	294	12.650	56.242	76.007	1.00 37.34		С
	MOTA	5245	CG	LEU B		11.398	56.505	75.184	1.00 35.26		c
	ATOM	5246		LEU B		11.000	55.233	74.453	1.00 42.55		С
	ATOM	5247		LEU B		10.278	57.009	76.098	1.00 26.36		С
	ATOM	5248	N	PHE B		14.475	57.743	78.669	1.00 30.92		00007
	ATOM	5249	CA	PHE B		15.632	57.502	79.506	1.00 34.03		c
	ATOM	5250	c	PHE B		15.218	56.972	80.858	1.00 34.10		ċ
	ATOM	5251	ŏ	PHE B		14.562	57.666	81.645	1.00 42.65		ò
			-	0		14.302	2		42.03		_

MOTA	5252	CB	PHE	R	295	16.448	58.774	79.687	1 00	36.16	С
MOTA	5253	CG	PHE		295	17.311	59.079	78.527	1.00	30.56	С
ATOM	5254	CD1	PHE	В	295	16.749	59.300	77.286	1.00	34.14	С
ATOM	5255	CD2		R	295	18.688	59.091	78.656	1 00	26.11	С
ATOM	5256	CEl	PHE	В	295	17.544	59.526	76.181	1.00	38.29	С
ATOM	5257	CE2	PHE	В	295	19.496	59.316	77.562	1.00	35.19	С
MOTA	5258	CZ	PHE		295	18.924	59.534	76.318		36.95	C
ATOM	5259	N	MET	В	296	15.603	55.733	81.128	1.00	22.48	N
ATOM	5260	CA	MET	В	296	15.280	55.140	82.401	1.00	21.21	С
ATOM	5261		MET		296	16.238		83.432	1.00	8.44	Č
		Ç					55.715				
ATOM	5262	0	MET	В	296	17.267	56.304	83.100	1.00	12.07	0
ATOM	5263	CB	MET	В	296	15.458	53.625	82.329	1.00	29.96	С
ATOM	5264	CG			296	14.637		81.257		36.98	ř
							52.943				c s c
ATOM	5265	SD			296	15.077	51.204	81.136	1.00	38.86	S
ATOM	5266	CE	MET	В	296	16.504	51.292	80.091	1.00	33.37	C
ATOM	5267	N			297	15.870	55.559	84.688	1.00	3.31	N
ATOM	5268	CA	SER	В	297	16.699	55.986	85.791	1.00	8.77	С
ATOM	5269	С	SER	В	297	16.290	54.970	86.822	1.00	18.70	С
ATOM	5270	ō	SER			15.508	55.254	87.724		22.71	Ō
ATOM	5271	СВ	SER	В	297	16.338	57.395	86.259	1.00	14.75	С
MOTA	5272	OG	SER	В	297	17.177	57.802	87.337	1.00	8.66	0
ATOM	5273	N	ASN		298	16.798	53.764	86.650		22.61	N
ATOM	5274	CA	ASN			16.484	52.687	87.558		29.60	С
ATOM	5275	С	ASN	В	298	17.692	51.780	87.645	1.00	34.27	С
ATOM	5276	0	ASN		298	18.615	51.887	86.832	1.00	28.75	0
											Š
MOTA	5277	СВ	ASN		298	15.276	51.912	87.030		32.96	С
ATOM	5278	CG	ASN	В	298	15.341	51.698	85.535	1.00	38.86	С
ATOM	5279		ASN		298	16.273	51.066	85.024		39.71	0
MOTA	5280		ASN			14.356	52.234	84.816		41.15	N
MOTA	5281	N	ASP	В	299	17.695	50.904	88.641	1.00	38.90	N
MOTA	5282	CA	ASP	R	299	18.779	49.960	88.772	1.00	39.76	С
											č
MOTA	5283	С	ASP		299	18.326	48.711	88.014		42.94	<u> </u>
MOTA	5284	0	ASP	В	299	17.504	47.951	88.521	1.00	56.20	0
MOTA	5285	CB	ASP	В	299	19.015	49.622	90.232	1.00	43.59	С
			ASP			20.187	48.700	90.415		61.39	č
MOTA	5286	CG									
MOTA	5287	QD1	ASP	В	299	20.475	47.933	89.478	1.00	69.62	0
MOTA	5288	OD2	ASP	В	299	20.814	48.721	91.494	1.00	72.12	0
MOTA	5289	N	LEU		300	18.858	48.512	86.807		37.42	N
MOTA	5290	CA	LEU	В	300	18.500	47.367	85.968		37.23	С
ATOM	5291	С	LEU	В	300	18.888	46.014	86.576	1.00	39.88	С
ATOM	5292	0	LEU		300	18.591	44.963	86.005	1 00	46.92	0
ATOM	5293	CB	LEU	В	300	19.135	47.500	84.571		33.44	С
ATOM	5294	CG	LEU	В	300	18.767	48.687	83.670	1.00	42.19	С
ATOM	5295		LEU		300	19.097	49.983	84.378		49.28	С
ATOM	5296	CDZ	LEU		300	19.538	48.609	82.354		41.83	_
ATOM	5297	N	ARG	В	301	19.543	46.040	87.736	1.00	36.03	N
ATOM	5298	CA	ARG	В	301	19.965	44.822	88.438	1.00	43.28	С
							44.373	89.297		50.61	č
MOTA	5299	C	ARG		301	18.796					Č
ATOM	5300	0	ARG	В	301	18.327	43.237	89.210	1.00	53.65	0
ATOM	5301	CB	ARG	В	301	21.149	45.137	89.346	1.00	43.12	С
ATOM	5302	CG	ARG		301	22.253	45.888	88.624		46.62	С
ATOM	5303	CD	ARG	В	301	23.340	46.421	89.553		56.63	С
ATOM	5304	NE	ARG	В	301	22.939	47.621	90.285	1.00	58.70	N
MOTA	5305	CZ	ARG		301	23.778	48.381	90.980	1.00	63.45	С
MOTA	5306		ARG		301	25.064	48.074	91.041		64.54	N
ATOM	5307	NH2	ARG	В	301	23.332	49.447	91.619	1.00	72.40	N
ATOM	5308	N	HIS	В	302	18.343	45.304	90.128	1.00	56.54	N
ATOM	5309	CA	HIS			17.229	45.082	91.021		64.34	С
	-										č
ATOM	5310	C	HIS			16.012	45.816	90.469	1.00	60.12	
MOTA	5311	0	HIS			15.606	46.864	90.983		64.27	Ō
ATOM	5312	CB	HIS	В	302	17.564	45.594	92.425	1.00	73.45	С
ATOM	5313	CG	HIS			18.838	45.037	92.984		85.14	Ċ
ATOM	5314		HIS			18.988	43.708	93.314		91.07	N
ATOM	5315	CD2	HIS	В	302	20.029	45.625	93.244	1.00	91.96	С
ATOM	5316		HIS			20.218	43.499	93.751		94.56	С
											N
ATOM	5317		HIS			20.870	44.647	93.718		97.45	
ATOM	5318	N	ILE	В	303	15.455	45.269	89.391		52.24	N
ATOM	5319	CA	ILE	В	303	14.274	45.837	88.763	1.00	42.64	С
ATOM	5320	č	ILE			13.231	44.745	88.606		45.64	č
											ž
MOTA	5321	0	ILE			13.535	43.642	88.143		43.87	0
ATOM	5322	CB	ILE	В	303	14.596	46.424	87.374	1.00	41.50	С
ATOM	5323		ILE			13.331	47.030	86.769		49.28	r
											ž
ATOM	5324	<b>LP</b>	ILE	ಶ	202	15.139	45.343	86.458		34.23	с с с
ATOM	5325	CD1	ILE	В	303	13.575	47.812	85.514	1.00	50.30	С
ATOM	5326	N	SER			12.008	45.057	89.013	1.00	46.67	N
ATOM	5327	CA	SER			10.898	44.119	88.930		48.72	•
								87.541			ž
ATOM	5328	Č	SER			10.760	43.527		1.00	49.16	č
MOTA	5329	0	SER			11.070	44.185	86.550		50.82	c c o c
MOTA	5330	CB	SER	В	304	9.607	44.833	89.306	1.00	49.11	C
MOTA	5331	OG	SER			9.765	46.233	89.168		52.40	0
ATOM	5332					10.304	42.268	87.446		53.50	N
017	2226	N	PRO		.0.	10.304	42.200	J	4.00	JJ. JU	14

MOTA	5333	CA	PPO	R	305	10.138	41.632	86.136	1 00 55 43	•
ATOM	5334	c	PRO		305	8.950			1.00 55.43	C
							42.309	85.463	1.00 53.13	C
MOTA	5335	0			305	8.975	42.630	84.266	1.00 41.46	0
MOTA	5336	CB			305	9.826	40.178	86.489	1.00 56.22	С
MOTA	5337	CG			305	10.401	40.014	87.847	1.00 60.62	С
MOTA	5338	CD			305	10.038	41.305	88.521	1.00 58.74	С
ATOM	5339	N	GLN	В	306	7.909	42.514	86.268	1.00 57.38	N
MOTA	5340	CA	GLN	В	306	6.691	43.154	85.816	1.00 63.53	С
MOTA	5341	С	GLN		306	7.023	44.523	85.238	1.00 62.83	č
ATOM	5342	Ó	GLN		306	6.424	44.946	84.258	1.00 64.21	ŏ
MOTA	5343	CB	GLN		306	5.703	43.282	86.983	1.00 70.70	č
ATOM	5344	CG	GLN			6.277	43.885	88.256	1.00 88.06	c
ATOM	5345	CD	GLN		306	5.228	44.056			
ATOM	5346		GLN					89.338	1.00 98.86	C
ATOM	5347					4.598	43.089	89.765	1.00108.90	0
			GLN		306	5.032	45.293	89.788	1.00100.01	N
ATOM	5348	N	ALA			7.992	45.206	85.838	1.00 60.27	N
ATOM	5349	CA	ALA			8.400	46.525	85.368	1.00 52.67	С
MOTA	5350	С	ALA		307	9.104	46.388	84.027	1.00 49.37	C
ATOM	5351	0	ALA	В	307	8.612	46.870	83.009	1.00 47.80	0
ATOM	5352	CB	ALA	В	307	9.328	47.179	86.376	1.00 50.06	С
MOTA	5353	N	LYS	В	308	10.260	45.729	84.041	1.00 48.26	N
ATOM	5354	CA	LYS	В	308	11.056	45.509	82.831	1.00 49.41	С
ATOM	5355	С	LYS	В	308	10.185	45.131	81.636	1.00 47.85	С
ATOM	5356	0	LYS	В	308	10.506	45.464	80.492	1.00 42.82	Ó
ATOM	5357	CB	LYS	В	308	12.075	44.388	83.059	1.00 51.52	Ċ
MOTA	5358	CG	LYS		308	12.844	44.012	81.802	1.00 58.09	Č
ATOM	5359	ĊD	LYS			13.486	42.648	81.907	1.00 65.32	č
ATOM	5360	CE	LYS			12.437	41.566	82.032	1.00 72.87	č
MOTA	5361	NZ	LYS			13.054	40.221	81.974	1.00 73.72	N
ATOM	5362	N	ALA			9.099	44.414	81.910	1.00 46.79	N
ATOM	5363	CA	ALA			8.184	43.986	80.864	1.00 43.70	C
	5364	c	ALA			7.609	45.208			c
ATOM								80.176	1.00 39.92	
ATOM	5365	0	ALA			7.671	45.351	78.952	1.00 40.53	0
MOTA	5366	CB	ALA		309	7.071	43.154	81.461	1.00 45.68	C
ATOM	5367	N	LEU			7.045	46.091	80.986	1.00 36.87	N
ATOM	5368	CA	LEU		310	6.464	47.325	80.491	1.00 32.15	С
ATOM	5369	С	LEU		310	7.526	48.151	79.771	1.00 30.53	С
ATOM	5370	0	LEU	В	310	7.392	48.442	78.596	1.00 27.92	0
ATOM	5371	CB	LEŲ	В	310	5.892	48.124	81.661	1.00 33.14	С
ATOM	5372	CG	LEU	В	310	5.357	49.532	81.400	1.00 40.85	С
ATOM	5373	CD1	LEU	В	310	4.349	49.513	80.252	1.00 52.52	C
MOTA	5374	CD2	LEU	В	310	4.723	50.071	82.693	1.00 50.61	С
ATOM	5375	N	LEU	В	311	8.584	48.523	80.482	1.00 26.12	N
ATOM	5376	CA	LEU	В	311	9.671	49.308	79.910	1.00 25.13	С
ATOM	5377	С	LEU	В	311	10.113	48.841	78.515	1.00 32.11	С
ATOM	5378	0	LEU	В	311	10.567	49.649	77.700	1.00 33.23	0
ATOM	5379	CB	LEU	В	311	10.865	49.280	80.864	1.00 12.06	C
MOTA	5380	CG	LEU		311	10.705	50.239	82.036	1.00 26.57	Ċ
ATOM	5381		LEU		311	11.473	49.752	83.244	1.00 31.27	č
ATOM	5382		LEU		311	11.182	51.614	81.598	1.00 17.17	č
ATOM	5383	N	GLN			9.972	47.544	78.239	1.00 36.20	N
ATOM	5384	CA	GLN		312	10.383	46.972	76.958	1.00 36.10	ċ
ATOM	5385	Č.	GLN		312	9.260	46.597	76.002	1.00 42.91	č
ATOM	5386	ŏ	GLN		312	9.535	46.061	74.935	1.00 46.16	õ
ATOM	5387	СВ	GLN			11.243	45.731	77.198	1.00 34.90	č
ATOM	5388	CG	GLN		312	12.474	45.966	78.052	1.00 43.65	č
	5389							78.032		c
ATOM ATOM	5390	CD	GLN		312	13.431	44.787		1.00 45.97	o
			GLN			13.015	43.641	78.168	1.00 51.35	
ATOM ATOM	5391		GLN			14.722	45.066	77.892	1.00 42.69	N
	5392	N	ASP			8.008	46.870	76.359	1.00 45.00	N
ATOM	5393	CA	ASP			6.892	46.527	75.474	1.00 51.81	C
ATOM	5394	Ç	ASP			7.108	47.009	74.025	1.00 53.55	C
MOTA	5395	0	ASP			6.974	48.202	73.722	1.00 49.29	0
MOTA	5396	CB	ASP			5.576	47.103	76.005	1.00 54.01	Ç
ATOM	5397	CG	ASP			4.361	46.603	75.220	1.00 60.77	c
ATOM	5398		ASP			4.414	46.610	73.961	1.00 64.06	0
MOTA	5399		ASP			3.353	46.215	75.857	1.00 53.70	0
MOTA	5400	N	LYS	В	314	7.416	46.062	73.139	1.00 57.01	N
MOTA	5401	CA	LYS			7.681	46.344	71.730	1.00 61.78	С
MOTA	5402	С	LYS	В	314	6.675	47.266	71.048	1.00 58.40	С
MOTA	5403	0	LYS	В	314	7.058	48.159	70.294	1.00 60.17	0
MOTA	5404	CB	LYS	В	314	7.740	45.036	70.934	1.00 76.80	С
MOTA	5405	CG	LYS	В	314	8.778	44.038	71.422	1.00102.87	С
MOTA	5406	CD	LYS			8.732	42.756	70.587	1.00117.39	C
АТОМ	5407	CE	LYS			9.822	41.776	71.005	1.00124.70	С
MOTA	5408	NZ	LYS			9.841	40.579	70.115	1.00132.68	N
MOTA	5409	N	ASP			5.392	47.032	71.301	1.00 56.81	N
MOTA	5410	CA	ASP			4.317	47.810	70.687	1.00 50.96	С
MOTA	5411	C	ASP			4.255	49.248	71.169	1.00 46.39	c
MOTA	5412	0	ASP			3.860	50.143	70.412	1.00 41.44	ō
MOTA	5413	CB	ASP			2.976	47.135	70.961	1.00 54.17	c

ATOM	5414	CG	ASP B		3.016	45.649	70.699	1.00 60.24	С
ATOM	5415	OD1			3.030	45.253	69.513	1.00 57.63	ŏ
ATOM	5416		ASP B		3.041	44.880	71.687	1.00 62.09	ŏ
MOTA	5417	N	VAL B		4.634	49.469	72.428	1.00 42.81	N
MOTA	5418	CA	VAL B	316	4.601	50.812	72.994	1.00 41.35	C
MOTA	5419	С	VAL B	316	5.838	51.596	72.578	1.00 49.57	С
MOTA	5420	0	VAL B		5.753	52.778	72.234	1.00 56.13	0
MOTA	5421	CB	VAL B		4.488	50.759	74.535	1.00 30.91	C
ATOM	5422		VAL B		4.408	52.170	75.117	1.00 37.66	Ç
MOTA	5423		VAL B		3.241	49.990	74.924	1.00 38.09	c
ATOM	5424	N	ILE B		6.988	50.935	72.598	1.00 52.84	N
MOTA	5425	CA	ILE B		8.221 8.046	51.590 52.038	72.189	1.00 50.65	C C
ATOM ATOM	5426 5427	C 0	ILE B		8.483	53.115	70.747 70.355	1.00 51.01	0
ATOM	5428	СВ	ILE B		9.403	50.628	72.232	1.00 47.80	č
ATOM	5429	CG1			9.421	49.888	73.568	1.00 45.69	č
ATOM	5430	CG2	ILE B		10.695	51.401	72.016	1.00 49.27	С
MOTA	5431		ILE B		10.497	48.824	73.658	1.00 57.21	č
ATOM	5432	N	ALA B		7.396	51.184	69.968	1.00 47.41	N
MOTA	5433	CA	ALA B	318	7.139	51.453	68.569	1.00 47.73	С
MOTA	5434	С	ALA B		6.400	52.765	68.443	1.00 45.10	Ç
ATOM	5435	0	ALA B		6.787	53.641	67.680	1.00 51.89	0
ATOM	5436	CB	ALA B		6.315	50.331	67.965	1.00 49.34	C
MOTA	5437	N	ILE B		5.327 4.574	52.910	69.195	1.00 38.46	N N
MOTA MOTA	5438 5439	CA	ILE B		5.474	54.146 55.344	69.123 69.390	1.00 35.63	c
ATOM	5440	ŏ	ILE B		5.567	56.249	68.574	1.00 41.34	ŏ
ATOM	5441	СВ	ILE B		3.407	54.128	70.118	1.00 33.97	č
ATOM	5442		ILE B		2.335.	53.165	69.607	1.00 42.09	č
MOTA	5443	CG2			2.837	55.531	70.302	1.00 23.48	C
MOTA	5444	CD1	ILE B	319	1.200	52.970	70.559	1.00 54.00	С
ATOM	5445	N	ASN B		6.149	55.349	70.528	1.00 35.81	N
MOTA	5446	CA	ASN B		7.035	56.459	70.859	1.00 36.40	Ğ
MOTA	5447	C	ASN B		8.121	56.649	69.800	1.00 35.02	c
ATOM	5448	0	ASN B		8.548	57.777	69.534	1.00 38.20	0
ATOM	5449	CB	ASN B		7.675 8.791	56.222 57.189	72.232 72.527	1.00 43.77 1.00 50.25	C
ATOM ATOM	5450 5451	CG OD1	ASN B		9.820	57.183	71.856	1.00 55.90	ō
ATOM	5452		ASN B		8.595	58.031	73.536	1.00 51.06	N
ATOM	5453	N	GLN B		8.553	55.539	69.199	1.00 37.76	N
ATOM	5454	CA	GLN B		9.605	55.542	68.176	1.00 49.96	С
MOTA	5455	С	GLN B		9.075	55.766	66.768	1.00 57.68	С
MOTA	5456	0	GLN B		9.796	55.571	65.785	1.00 59.07	0
ATOM	5457	CB	GLN B		10.381	54.217	68.206	1.00 44.90	C
ATOM	5458	CG	GLN B		11.433	54.121	69.288	1.00 46.70	C
MOTA	5459	CD	GLN B		12.465	55.214	69.156	1.00 47.84 1.00 39.88	C 0
MOTA MOTA	5460 5461	OE1 NE2	GLN B		13.001 12.748	55.445 55.898	68.075 70.255	1.00 33.88	N
ATOM	5462	N	ASP B		7.811	56.163	66.677	1.00 62.92	N
ATOM	5463	CA	ASP B		7.179	56.415	65.388	1.00 60.53	C
ATOM	5464	C	ASP B		8.128	57.252	64.543	1.00 54.21	С
MOTA	5465	0	ASP B	322	8.665	58.258	65.007	1.00 50.45	0
MOTA	5466	CB	ASP B		5.846	57.142	65.592	1.00 63.03	Ç
MOTA	5467	CG	ASP B		5.023	57.222	64.330	1.00 60.44	C
MOTA	5468				4.739	56.161	63.729	1.00 51.90	0
MOTA	5469	OD2	ASP B		4.652	58.351	63.954	1.00 56.64	О N
ATOM ATOM	5470 5471	N CA	PRO B		8.340 9.227	56.844 57.517	63.287 62.336	1.00 48.81 1.00 49.20	C
ATOM	5472	C	PRO B		8.723	58.889	61.960	1.00 49.78	č
ATOM	5473	ŏ	PRO B		9.507	59.781	61.661	1.00 50.30	õ
ATOM	5474	CB	PRO B		9.210	56.579	61.147	1.00 49.51	С
ATOM	5475	CG	PRO B		7.765	56.174	61.116	1.00 54.97	С
MOTA	5476	CD	PRO B	323	7.485	55.866	62.586	1.00 50.18	С
MOTA	5477	N	LEU B		7.405	59.036	61.965	1.00 46.95	N
ATOM	5478	CA	LEU B		6.769	60.290	61.619	1.00 46.62	c
ATOM	5479	Č	LEU B		7.305	61.438	62.469	1.00 46.44	c 0
ATOM	5480	O CB	LEU B		7.764	62.444 60.179	61.938 61.809	1.00 50.63 1.00 52.20	č
ATOM ATOM	5481 5482	CB CG	LEU B		5.262 4.419	60.922	60.775	1.00 54.98	Č
ATOM	5483		LEU B		3.002	61.035	61.284	1.00 53.77	Ċ
ATOM	5484		LEU B		4.991	62.300	60.518	1.00 54.88	С
ATOM	5485	N	GLY B		7.234	61.302	63.786	1.00 42.83	N
MOTA	5486	CA	GLY B		7.751	62.356	64.633	1.00 49.56	C
ATOM	5487	Ç	GLY B		6.734	63.435	64.915	1.00 52.99	C
ATOM	5488	0	GLY B		7.074	64.613	65.004	1.00 57.80	0
MOTA MOTA	5489 5490	N CA	LYS B		5.478 4.399	63.030 63.962	65.051 65.352	1.00 51.78 1.00 50.83	N C
ATOM	5491	C	LYS B		4.006	63.841	66.836	1.00 47.62	c
ATOM	5492	õ	LYS B		3.348	62.879	67.237	1.00 55.21	ŏ
MOTA	5493	СB	LYS B		3.196	63.663	64.450	1.00 60.35	č
MOTA	5494	CG	LYS B		3.429	63.995	62.985	1.00 72.43	С

MOTA	5495	CD	LYS	В	326	3.467	65.503	62.743	1 00	82.46	С
MOTA	5496	CE	LYS		326	2.087	66.119	62.908		86.36	С
ATOM	5497	NZ	LYS	В	326	2.099	67.587	62.667	1.00	88.74	N
MOTA	5498	N	GLN	В	327	4.401	64.821	67.645		36.75	N
MOTA	5499	CA	GLN		327	4.097	64.770	69.068		33.19	С
MOTA	5500	С	GLN	₿	327	2.609	64.823	69.383	1.00	31.89	С
ATOM	5501	0	GLN	В	327	1.871	65.600	68.807	1.00	32.48	0
											9
ATOM	5502	СВ	GLN	B	327	4.822	65.895	69.812	1.00	26.14	С
ATOM	5503	CG	GLN	В	327	4.941	65.663	71.317	1.00	19.26	Č
ATOM	5504	CD	GLN		327	6.152					Ċ
							66.351	71.913		27.52	
MOTA	5505	OE1	GLN	В	327	7.291	65.991	71.630	1.00	31.18	0
ATOM	5506	NE2	GLN	В	327	5.910	67.348	72.740	1.00	26.20	N
ATOM	5507	N	GLY			2.180	63.992			30.12	N
								70.323			
MOTA	5508	CA	GLY	В	328	0.779	63.952	70.699	1.00	28.50	С
MOTA	5509	С	·GLY	В	328	0.356	65.181	71.464	1.00	30.24	С
ATOM	5510	ŏ	GLY			1.103	66.158	71.553		32.72	ō
MOTA	5511	N	TYR	В	329	-0.844	65.120	72.028	1.00	29.80	N
ATOM	5512	CA	TYR	В	329	-1.385	66.241	72.777	1.00	32.42	C
ATOM	5513	C	TYR			-2.696	65.882	73.453		30.05	Ċ
ATOM	5514	0	TYR	В	329	-3.376	64.937	73.050	1.00	34.49	0
MOTA	5515	CB	TYR	В	329	-1.622	67.413	71.832	1.00	43.23	С
MOTA	5516	CG	TYR			-2.507	67.045	70.657		50.66	C
											0000000
MOTA	5517		TYR			-3.876	66.840	70.820		57.72	C
MOTA	5518	CD2	TYR	В	329	-1.964	66.858	69.388	1.00	49.27	С
MOTA	5519	CE1	TYR	R	329	-4.674	66.455	69.746	1 00	56.30	C
											č
MOTA	5520	CE2	TYR			-2.755	66.473	68.312		48.22	C
MOTA	5521	CZ	TYR	В	329	-4.102	66.273	68.499	1.00	47.50	С
MOTA	5522	ОН	TYR	R	329	-4.874	65.881	67.442	1.00	46.62	0
MOTA	5523	N	GLN			-3.050	66.655	74.473		29.84	N
ATOM	5524	CA	GLN	В	330	-4.287	66.438	75.199	1.00	31.22	C
MOTA	5525	С	GLN	R	330	-5.417	66.915	74.316	1 00	33.66	Ċ
ATOM	5526	0	GLN			-5.362	67.995	73.737		31.76	0
ATOM	5527	CB	GLN	В	330	-4.286	67.234	76.497	1.00	34.22	c c
ATOM	5528	CG	GLN	В	330	-5.544	67.098	77.308	1.00	43.47	С
ATOM	5529		GLN			-5.587	68.102	78.434		51.85	Ċ
		CD									
MOTA	5530	OE1	GLN	В	330	-5.650	69.311	78.191	1.00	73.21	0
ATOM	5531	NE2	GLN	В	330	-5.543	67.616	79.679	1.00	29.07	N
ATOM	5532	N	LEU			-6.447	66.100	74.209		36.00	N
ATOM	5533	CA	LEU	В	331	-7.577	66.471	73.396	1.00	43.25	С
ATOM	5534	С	LEU	В	331	-8.654	67.027	74.308	1.00	48.53	С
ATOM	5535	Ō	LEU			-9.072	68.176	74.162		64.23	Ō
ATOM	5536	CB	LEU	В	331	-8.105	65.258	72.629	1.00	47.74	С
MOTA	5537	CG	LEU	В	331	-9.408	65.458	71.851	1.00	62.42	C
ATOM	5538		LEU		331	-9.428	66.831	71.210		73.58	Č
MOTA	5539	CD2	LEU	В	331	-9.544	64.374	<b>70</b> .800	1.00	67.66	С
ATOM	5540	N	ARG	В	332	-9.081	66.216	75.267	1.00	43.33	N
ATOM	5541	CA	ARG			-10.128	66.621	76.191	1 00	51.00	С
MOTA	5542	С	ARG			-9.720	66.842	77.651		54.03	С
MOTA	5543	0	ARG	В	332	-8.658	66.403	78.095	1.00	58.81	0
MOTA	5544	CB	ARG		332	-11.264	65.601	76.138	1 00	53.85	С
								74.987		65.81	č
MOTA	5545	CG	ARG		332	-12.221	65.814				
ATOM	5546	CD	ARG	В	332	-13.250	64.702	74.906	1.00	74.40	С
ATOM	5547	NE	ARG	В	332	-14.437	65.091	74.142	1.00	90.15	N
ATOM	5548	CZ	ARG		332	-14.417	65.591	72.908		93.10	C
MOTA	5549	NH1	ARG		332	-13.266	65.773	72.276		90.50	N
ATOM	5550	NH2	ARG	В	332	-15.554	65.910	72.300	1.00	94.95	N
ATOM	5551	N	GLN		333	-10.595	67.538	78.377	1.00	59.53	N
MOTA	5552	CA	GLN			-10.437	67.859	79.799		59.64	c
ATOM	5553	С	GLN			-11.779	67.531	80.427		60.67	С
ATOM	5554	0	GLN	В	333	-12.652	66.974	79.770	1.00	63.34	0
MOTA	5555	CB	GLN			-10.172	69.357	79.989		66.45	С
											-
ATOM	5556	CG	GLN			-8.737	69.784	79.800		73.50	С
ATOM	5557	CD	GLN	В	333	-7.953	69.703	81.085	1.00	74.39	С
MOTA	5558		GLN			-8.156	68.792	81.885		68.78	0
MOTA	5559		GLN			-7.043	70.651	81.290		75.58	N
ATOM	5560	N	GLY	В	334	-11.942	67.873	81.697	1.00	61.52	N
MOTA	5561	CA	GLY			-13.215	67.643	82.362		64.25	С
								83.026			č
MOTA	5562	C	GLY			-13.545	66.316			57.75	
ATOM	5563	0	GLY			-13.184	65.241	82.540		48.01	0
ATOM	5564	N	ASP	В	335	-14.252	66.418	84.151	1.00	55.93	N
ATOM	5565	CA	ASP			-14.700	65.267	84.935		56.96	c
											č
MOTA	5566	C	ASP			-13.594	64.361	85.456		53.22	Ċ
ATOM	5567	0	ASP	В	335	-13.828	63.188	85.763	1.00	53.10	0
MOTA	5568	ČВ	ASP			-15.694	64.435	84.115		65.57	Č
								84.929			č
ATOM	5569	CG	ASP			-16.335	63.330			74.34	Č
MOTA	5570		ASP			-16.702	63.595	86.093		78.23	0
MOTA	5571	OD2	ASP	В	335	-16.483	62.202	84.409	1.00	77.66	0
ATOM	5572	N	ASN			-12.395	64.908	85.586		51.36	N
ATOM	5573	CA	ASN			-11.283	64.105	86.048		45.32	C
ATOM	5574	С	ASN			-11.034	63.039	85.017	1.00	37.63	С
MOTA	5575	0			336	-11.031	61.856	85.321		34.06	0
				-							_

ATOM	5576	CB	ASN	В	336	-11.597	63.432	87.384	1.00 50	. 91	С
ATOM	5577	CG	ASN		336	-11.058	64.196	88.555	1.00 58		č
MOTA	5578		ASN		336	-10.080	64.937	88.433	1.00 69		0
ATOM	5579		ASN		336	-11.680	64.009	89.712	1.00 58		N
MOTA	5580	N	PHE	В	337	-10.861	63.470	83.783	1.00 31	. 44	N
ATOM	5581	CA	PHE	В	337	-10.581	62.562	82.700	1.00 31	. 17	С
ATOM	5582	С	PHE		337	-9.765	63.351	81.705	1.00 32		Ċ
	5583	ō	PHE		337	-10.078	64.513		1.00 36		ŏ
ATOM								81.435			
MOTA	5584	CB	PHE		337	-11.876	62.075	82.045	1.00 32		0 0 0 0 0
MOTA	558 <b>5</b>	CG	PHE	В	337	-12.306	60.699	82.488	1.00 39	. 46	С
MOTA	5586	CD1	PHE	В	337	-13.653	60.415	82.718	1.00 49	. 81	С
MOTA	5587	CD2	PHE	В	337	-11.371	59.683	82.661	1.00 47		С
ATOM	5588		PHE		337	-14.063	59.141	83.114	1.00 54		č
			PHE								č
MOTA	5589				337	-11.769	58.407	83.056	1.00 63		
ATOM	5590	CZ	PHE		337	-13.121	58.138	83.283	1.00 65		C
ATOM	5591	N	GLU	В	338	-8.703	62.737	81.189	1.00 32		N
ATOM	5592	CA	GLU	В	338	-7.849	63.373	80.189	1.00 33	.18	C
ATOM	5593	С	GLU	В	338	-7.723	62.467	78.965	1.00 33	. 15	С
ATOM	5594	0	GLU		338	-7.452	61.275	79.090	1.00 40		0
ATOM	5595	ČВ	GLU		338	-6.449	63.648	80.748	1.00 25		č
											č
ATOM	5596	CG	GLU		338	-6.311	64.927	81.545	1.00 33		c c
ATOM	5597	CD	GLU		338	-4.855	65.332	81.751	1.00 38		
ATOM	5598	OE1	GLU	В	338	-4.182	65.626	80.735	1.00 33	. 53	0
ATOM	5599	OE2	GLU	В	338	-4.387	65.354	82.920	1.00 39	. 80	0
ATOM	5600	N	VAL	В	339	-7.924	63.028	77.781	1.00 26	. 69	N
ATOM	5601	CA	VAL		339	-7.797	62.236	76.571	1.00 13		С
						-6.660	62.746	75.705	1.00 13		č
ATOM	5602	C	VAL		339						č
ATOM	5603	0	VAL		339	-6.734	63.847	75.155	1.00 17		0
ATOM	5604	CB	VAL		339	-9.070	62.257	75.715	1.00 13		C
ATOM	5605	CG1	VAL	В	339	-8.781	61.562	74.390	1.00 3	. 31	С
ATOM	5606	CG2	VAL	В	339	-10.218	61.564	76.451	1.00 3	. 31	С
ATOM	5607	N	TRP		340	-5.611	61.937	75.590		. 29	N
	5608	CA	TRP		340	-4.457	62.302	74.783	1.00 14		Ċ
MOTA											č
ATOM	5609	C	TRP		340	-4.443	61.493	73.494	1.00 17		Č
ATOM	5610	0	TRP		340	-5.117	60.465	73.402	1.00 26		0
ATOM	5611	CB	TRP	В	340	-3.166	62.065	75.574	1.00 16		С
ATOM	5612	CG	TRP	В	340	-3.007	63.005	76.719	1.00 16	.94	C
ATOM	5613	CD1	TRP	В	340	-3.852	63.151	77.778	1.00 21	.92	c c
MOTA	5614	CD2	TRP	В	340	-1.962	63.968	76.902	1.00 23	. 88	С
ATOM	5615		TRP		340	-3.402	64.153	78.613	1.00 29	. 39	N
MOTA	5616		TRP		340	-2.245	64.671	78.096	1.00 31		
ATOM	5617	CE3	TRP		340	-0.815	64.307	76.174	1.00 28		0000
	5618		TRP		340	-1.427	65.690	78.574	1.00 40		č
MOTA									1.00 27		Č
MOTA	5619		TRP		340	-0.004	65.319	76.648			Č
ATOM	5620		TRP		340	-0.315	65.999	77.838	1.00 40		
ATOM	5621	N	GLU		341	-3.685	61.970	72.506		. 67	N
ATOM	5622	CA	GLU		341	-3.574	61.281	71.229		. 62	С
MOTA	5623	С	GLU	В	341	-2.411	61.810	70.387	1.00 13	.01	C 0
ATOM	5624	0	GLU	В	341	-2.079	62.994	70.425	1.00 18	. 84	0
ATOM	5625	CB	GLU	В	341	-4.876	61.417	70.427	1.00 3	. 31	С
ATOM	5626	CG	GLU		341	-4.949	62.688	69.565	1.00 25		С
ATOM	5627	CD	GLU		341	-6.299	62.880	68.885	1.00 30		Č
							61.938	68.223	1.00 27		ŏ
MOTA	5628	OEl			341	-6.778					
MOTA	5629	OE2	GLU		341	-6.880	63.980	68.998	1.00 36		0
MOTA	5630	N	ARG		342	-1.803	60.918	69.620	1.00 15		N
ATOM	5631	CA	ARG	В	342	-0.696	61.279	68.759	1.00 21		С
ATOM	5632	С	arg	В	342	-0.915	60.596	67.429	1.00 17		C
ATOM	5633	0	ARG	В	342	-1.234	59.408	67.379	1.00 12	. 91	0
MOTA	5634	CB	ARG		342	0.629	60.789	69.341	1.00 26	. 66	С
ATOM	5635	ĊĠ	ARG	_		1.797	60.879	68.353	1.00 29		С
	5636					2.980	60.020	68.783	1.00 35		č
MOTA		CD	ARG					67.997			N
ATOM	5637	NE	ARG			4.174	60.304		1.00 42		
MOTA	5638	CZ	ARG			5.356	59.737	68.209	1.00 48		С
ATOM	5639	NHl	ARG	В	342	5.500	58.852	69.181	1.00 43		N
ATOM	5640	NH2	ARG	В	342	6.400	60.064	67.461	1.00 53		N
ATOM	5641	N	PRO	В	343	-0.785	61.341	66.325	1.00 17	. 23	N
ATOM	5642	CA	PRO			-0.985	60.669	65.052	1.00 13	. 34	С
ATOM	5643	C	PRO			0.328	59.935	64.777	1.00 19		С
ATOM	5644	Ō	PRO			1.407	60.426	65.126	1.00 11		0
ATOM	5645	ČВ	PRO			-1.245	61.832	64.109	1.00 14		Č
ATOM	5646	CG	PRO			-0.357	62.887	64.651	1.00 11		č
	5647					-0.604	62.791	66.130	1.00 20		C
ATOM		CD	PRO				50 7EA		1.00 20		
MOTA	5648	N	LEU			0.233	58.750	64.186			N
MOTA	5649	CA	LEU			1.415	57.953	63.876	1.00 39		C
MOTA	5650	c	LEU			1.607	57.953	62.369	1.00 48		c
MOTA	5651	0	LEU			1.271	58.922	61.706	1.00 56		0
ATOM	5652	CB	LEU			1.214	56.527	64.373	1.00 27		Č
MOTA	5653	CC	LEU			0.596	56.546	65.763	1.00 33		Ç
MOTA	5654		LEU			0.240	55.146	66.204	1.00 40		С
MOTA	5655	CD2	LEU	В	344	1.572	57.209	66.716	1.00 36		С
MOTA	5656	N	SER	В	345	2.154	56.870	61.833	1.00 51	. 42	N

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MOTA	5657	CA	SER	В.	345	2.366	56.764	60.397	1.00 50.43	С
ATOM	5658	С	SER	B 3	345	1.310	55.819	59.866	1.00 53.44	С
ATOM	5659	0	SER	B 3	345	0.777	55.007	60.617	1.00 59.99	0
ATOM	5660	ČВ	SER		345	3.750	56.191	60.099	1.00 49.81	č
MOTA	5661	OG	SER			4.751	56.898	60.805	1.00 65.14	0
ATOM	5662	N	GLY	В 3	346	1.001	55.929	58.579	1.00 51.96	N
ATOM	5663	CA	GLY	В 3	346	0.018	55.047	57.972	1.00 62.14	С
ATOM	5664	Ċ	GLY		346	-1.408	55.183	58.462	1.00 66.08	č
MOTA	5665	0	GLY		346	-2.109	54.183	58.619	1.00 72.41	0
ATOM	5666	N	LEU	B 3	347	-1.841	56.416	58.706	1.00 67.58	N
ATOM	5667	CA	LEU	B 3	347	-3.206	56.680	59.158	1.00 71.85	С
MOTA	5668	C	LEU			-3.552	56.014	60.484	1.00 70.69	Ċ
ATOM	5669		LEU		347	-4.725	55.849	60.830	1.00 75.72	Š
		0								0
MOTA	5670	CB	LEU		347	-4.205	56.224	58.090	1.00 79.33	С
MOTA	5671	CG	LEU	В 3	347	-4.052	56.850	56.699	1.00 86.76	С
MOTA	5672	CD1	LEU	В 3	347	-5.015	56.184	55.726	1.00 94.59	С
ATOM	5673		LEU		347	-4.311	58.350	56.771	1.00 93.49	č
ATOM	5674		ALA		348	-2.522	55.622	61.221	1.00 64.54	
		N								N
ATOM	5675	CA	ALA		348	-2.712	54.974	62.508	1.00 55.40	С
MOTA	5676	С	ALA	B 3	348	-2.570	56.034	63.588	1.00 47.16	С
ATOM	5677	0	ALA	B 3	348	-1.744	56.943	63.472	1.00 52.56	0
MOTA	5678	CB	ALA		348	-1.680	53.882	62.696	1.00 65.49	Ċ
ATOM	5679	N	TRP		349	-3.378	55.921	64.635	1.00 33.00	N
MOTA	5680	CA	TRP			-3.341	56.885	65.724	1.00 29.96	Ç
MOTA	5681	С	TRP	В 3	349	-3.239	56.227	67.086	1.00 24.51	С
MOTA	5682	0	TRP	в 3	349	-3.819	55.166	67.329	1.00 28.15	0
MOTA	5683	ČВ			349	-4.583	57.764	65.694	1.00 30.99	Č
										č
ATOM	5684	CG	TRP			-4.627	58.696	64.547	1.00 39.58	c
MOTA	5685		TRP		349	-4.546	58.379	63.209	1.00 48.37	С
MOTA	5686	CD2	TRP	B 3	349	-4.829	60.101	64.614	1.00 39.41	C
MOTA	5687				149	-4.691	59.510	62.447	1.00 44.17	N
ATOM	5688		TRP			-4.869	60.583	63.285	1.00 44.56	Ċ
	5689					-4.983				č
MOTA			TRP				61.005	65.664	1.00 48.26	C
MOTA	5690		TRP			-5.065	61.938	62.988	1.00 51.67	С
MOTA	5691	CZ3	TRP	B 3	349	-5.174	62.342	65.372	1.00 53.35	С
ATOM	5692	CH2	TRP	B 3	349	-5.214	62.799	64.048	1.00 55.52	c c
ATOM	5693	N	ALA			-2.496	56.874	67.976	1.00 21.97	N
						-2.317			1.00 15.04	
MOTA	5694	CA	ALA				56.361	69.318		C
MOTA	5695	С	ALA		350	-3.203	57.220	70.204	1.00 13.29	c
MOTA	5696	0	ALA	B 3	350	-3.326	58.427	69.956	1.00 21.97	0
ATOM	5697	CB	ALA	B 3	350	-0.859	56.477	69.724	1.00 14.88	С
ATOM	5698	N	VAL		351	-3.828	56.615	71.216	1.00 11.43	N
ATOM	5699	CA	VAL			-4.700	57.377	72.109	1.00 16.42	С
ATOM	5700	С	VAL	B 3	351	-4.553	57.023	73.587	1.00 14.52	С
ATOM	5701	0	VAL	B 3	351	-4.475	55.848	73.942	1.00 20.61	0
ATOM	5702	СВ	VAL			-6.187	57.209	71.731	1.00 14.15	С
ATOM	5703	CG1			351	-7.039	58.140	72.591	1.00 18.62	č
ATOM	5704		VAL			-6.402	57.518	70.257	1.00 10.92	C
MOTA	5705	N	ALA	B 3	352	-4.543	58.045	74.442	1.00 7.24	N
MOTA	5706	CA	ALA	в 3	352	-4.405	57.836	75.878	1.00 12.07	С
ATOM	5707	С	ALA	B 3	352	-5.681	58.164	76.640	1.00 5.81	С
ATOM	5708	ō	ALA		352	-6.467	59.021	76.239	1.00 3.31	Ō
										č
MOTA	5709	CB	ALA		352	-3.249	58.667	76.423	1.00 31.41	
MOTA	5710	N		B 3		-5.871	57.467	77.750	1.00 9.84	N
MOTA	5711	CA	MET	B 3	353	-7.042	57.658	78.589	1.00 22.44	С
MOTA	5712	С	MET	B 3	353	-6.618	57.603	80.066	1.00 27.10	С
ATOM	5713	ō			353	-6.460	56.525	80.650	1.00 32.99	ŏ
ATOM	5714	СВ			353	-8.077	56.572	78.267	1.00 19.22	č
ATOM	5715	CG	MET	B 3	23	-9.415	57.108	77.759	1.00 18.91	C
MOTA	5716	SD	MET	В	353	-9.999	56.263	76.279	1.00 26.72	S
ATOM	5717	CE	MET	В 3	353	-10.279	54.594	76.866	1.00 38.91	С
ATOM	5718	N	ILE			-6.439	58.783	80.654	1.00 21.63	N
ATOM	5719	CA	ILE			-6.008	58.920	82.037	1.00 19.84	Ċ
	5720		ILE				59.205	82.975	1.00 20.11	č
ATOM		C				-7.171				
ATOM	5721	0	ILE			-7.959	60.121	82.716	1.00 23.90	0
MOTA	5722	CB	ILE			-5.036	60.090	82.193	1.00 18.54	С
ATOM	5723	CG1	ILE	B 3	354	-4.079	60.144	81.012	1.00 20.37	С
			ILE			-4.258	59.929	83.481	1.00 26.13	С
ATUM	5724					-3.386	61.474	80.867	1.00 37.14	č
MOTA MOTA	5724 5725		TLF	R						_
MOTA	5725	CD1	ILE			_7 27 <i>f</i>	EQ 473	BA DEC	סס בכ חת ו	AT
ATOM ATOM	5725 5726	CD1	ASN	B 3	355	-7.276	58.431	84.056	1.00 23.98	N
MOTA MOTA MOTA	5725 5726 5727	CD1 N CA	ASN ASN	B 3	355 355	-8.324	58.649	85.041	1.00 28.05	N
ATOM ATOM	5725 5726	CD1	ASN	B 3	355 355					и С С
MOTA MOTA MOTA MOTA	5725 5726 5727 5728	CD1 N CA C	ASN ASN ASN	B 3 B 3 B 3	155 155 155	-8.324 -7.701	58.649	85.041 86.179	1.00 28.05 1.00 25.20	N С С
ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729	CD1 N CA C	ASN ASN ASN ASN	B 3 B 3 B 3 B 3	155 155 155 155	-8.324 -7.701 -7.084	58.649 59.455 58.905	85.041 86.179 87.080	1.00 28.05 1.00 25.20 1.00 25.36	N С С
ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730	CD1 N CA C O CB	ASN ASN ASN ASN ASN	B 3 B 3 B 3 B 3	355 355 355 355	-8.324 -7.701 -7.084 -8.877	58.649 59.455 58.905 57.308	85.041 86.179 87.080 85.545	1.00 28.05 1.00 25.20 1.00 25.36 1.00 22.56	N С С
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730 5731	CD1 N CA C O CB CG	ASN ASN ASN ASN ASN	B 3 B 3 B 3 B 3 B 3 B 3	155 155 155 155 155	-8.324 -7.701 -7.084 -8.877 -9.823	58.649 59.455 58.905 57.308 57.466	85.041 86.179 87.080 85.545 86.735	1.00 28.05 1.00 25.20 1.00 25.36 1.00 22.56 1.00 21.05	N C C O C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730 5731 5732	CD1 N CA C O CB CG OD1	ASN ASN ASN ASN ASN ASN	B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3	355 355 355 355 355 355	-8.324 -7.701 -7.084 -8.877 -9.823 -10.566	58.649 59.455 58.905 57.308 57.466 58.445	85.041 86.179 87.080 85.545 86.735 86.849	1.00 28.05 1.00 25.20 1.00 25.36 1.00 22.56 1.00 21.05 1.00 32.29	x c c o c c o
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730 5731 5732 5733	CD1 N CA C O CB CG OD1	ASN ASN ASN ASN ASN	B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3	355 355 355 355 355 355	-8.324 -7.701 -7.084 -8.877 -9.823	58.649 59.455 58.905 57.308 57.466 58.445 56.487	85.041 86.179 87.080 85.545 86.735 86.849 87.620	1.00 28.05 1.00 25.20 1.00 25.36 1.00 22.56 1.00 21.05	ท C C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730 5731 5732	CD1 N CA C O CB CG OD1	ASN ASN ASN ASN ASN ASN	B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3 B 3	355 355 355 355 355 355 355	-8.324 -7.701 -7.084 -8.877 -9.823 -10.566	58.649 59.455 58.905 57.308 57.466 58.445	85.041 86.179 87.080 85.545 86.735 86.849	1.00 28.05 1.00 25.20 1.00 25.36 1.00 22.56 1.00 21.05 1.00 32.29	x c c o c c o
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	5725 5726 5727 5728 5729 5730 5731 5732 5733 5734	CD1 N CA C O CB CG OD1 ND2 N	ASN ASN ASN ASN ASN ASN ASN ASN ASN	B 3 3 B 3 B 3 B B 3 B B 3 B B 3 B B 3 B B 3 B B B B B B B B B B B B B B B B B B B B	155 155 155 155 155 155 155 155	-8.324 -7.701 -7.084 -8.877 -9.823 -10.566 -9.803 -7.841	58.649 59.455 58.905 57.308 57.466 58.445 56.487 60.770	85.041 86.179 87.080 85.545 86.735 86.849 87.620 86.115	1.00 28.05 1.00 25.20 1.00 25.36 1.00 22.56 1.00 21.05 1.00 32.29 1.00 17.99 1.00 20.51	N С С О С С О N N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730 5731 5732 5733 5734 5735	CD1 N CA C O CB CG OD1 ND2 N CA	ASN ASN ASN ASN ASN ASN ASN ARG ARG	B 3 B 3 B 3 B 3 B B 3 B B 3 B B 3 B B 3 B B B B B B B B B B B B B B B B B B B B	355 355 355 355 355 355 355 356	-8.324 -7.701 -7.084 -8.877 -9.823 -10.566 -9.803 -7.841 -7.279	58.649 59.455 58.905 57.308 57.466 58.445 56.487 60.770 61.627	85.041 86.179 87.080 85.545 86.735 86.849 87.620 86.115 87.132	1.00 28.05 1.00 25.20 1.00 25.56 1.00 22.56 1.00 21.05 1.00 32.29 1.00 17.99 1.00 20.51 1.00 31.23	N C C C C C C N N C C
MOTA ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730 5731 5732 5733 5734 5735 5736	CD1 N CA C O CB CG OD1 ND2 N CA C	ASN ASN ASN ASN ASN ASN ASN ASN ARG ARG ARG	B B B B B B B B B B B B B B B B B B B	355 355 355 355 355 355 356 356	-8.324 -7.701 -7.084 -8.877 -9.823 -10.566 -9.803 -7.841 -7.279 -8.053	58.649 59.455 58.905 57.308 57.466 58.445 56.487 60.770 61.627 61.623	85.041 86.179 87.080 85.545 86.735 86.849 87.620 86.115 87.132 88.446	1.00 28.05 1.00 25.20 1.00 25.36 1.00 21.05 1.00 32.29 1.00 17.99 1.00 20.51 1.00 31.23 1.00 35.46	N C C C C C C C R N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5725 5726 5727 5728 5729 5730 5731 5732 5733 5734 5735	CD1 N CA C O CB CG OD1 ND2 N CA	ASN ASN ASN ASN ASN ASN ASN ARG ARG	B B B B B B B B B B B B B B B B B B B	355 355 355 355 355 355 356 356	-8.324 -7.701 -7.084 -8.877 -9.823 -10.566 -9.803 -7.841 -7.279	58.649 59.455 58.905 57.308 57.466 58.445 56.487 60.770 61.627	85.041 86.179 87.080 85.545 86.735 86.849 87.620 86.115 87.132	1.00 28.05 1.00 25.20 1.00 25.56 1.00 22.56 1.00 21.05 1.00 32.29 1.00 17.99 1.00 20.51 1.00 31.23	N C C C C C C N N C C

N COM	5730	an.		356	2 160	£3 055	06 613				_
ATOM	5738	CB	ARG B		-7.169	63.055	86.612	1.00 3			С
ATOM	5739	CG	ARG B		-6.047	63.244	85.616	1.00 4			¢
ATOM	5740	CD	ARG B		-4.692	62.814	86.195	1.00 5	0.19		С
ATOM	5741	NE	ARG B	356	-4.092	63.775	87.134	1.00 5	9.43	1	N
ATOM	5742	CZ	ARG B		-3.703	65.010	86.815	1.00 6			C
ATOM	5743	NH1			-3.850	65.459	85.575	1.00 6			Ň
	5744		ARG B				87.730				
ATOM					-3.147	65.793		1.00 6		1	
ATOM	5745	N	GLN B		-8.870	60.592	88.673	1.00 2			N
ATOM	5746	CA	GLN B		-9.633	60.512	89.928	1.00 3			С
ATOM	5747	С	GLN B	357	-8.962	59.676	91.039	1.00 3	30.43		С
ATOM	5748	0	GLN B	357	-9.178	58.469	91.159	1.00 3	16.76		0
ATOM	5749	СВ	GLN B		-11.035	59.986	89.645	1.00 4			C
ATOM	5750	CG	GLN B		-11.891	59.925	90.876	1.00 5			č
ATOM	5751	CD	GLN B		-13.338	60.217	90.596	1.00 6			č
ATOM	5752		GLN B		-13.673		90.143	1.00 6			ŏ
ATOM	5753		GLN B		-14.205	59.251	90.854	1.00 6			N
ATOM	5754	N	GLU B		-8.155	60.350	91.849	1.00 2			N
ATOM	5755	CA	GLU B		-7.399	59.741	92.948	1.00 3		'	C
ATOM	5756	С	GLU B		-8.125	58.769	93.898	1.00 2			Ċ
ATOM	5757	0	GLU B	358	-7.482	57.963	94.573	1.00 3	30.41		0
ATOM	5758	CB	GLU B	358	-6.779	60.857	93.797	1.00 4	13.79		С
ATOM	5759	CG	GLU B	358	-5.919	61.873	93.036	1.00 4	18.64		С
ATOM	5760	CD	GLU B		-4.510	61.379	92.749	1.00 4			Ċ
ATOM	5761		GLU B		-3.894	60.773	93.649	1.00 4			ŏ
ATOM	5762		GLU B		-4.012	61.616	91.629	1.00 4			ŏ
MOTA											
	5763	N	ILE B		-9.448	58.848	93.968	1.00 2			N
MOTA	5764	CA	ILE B		-10.202	57.989	94.875	1.00 3			C
ATOM	5765	С	ILE B		-11.295	57.155	94.204	1.00 3			С
ATOM	5766	0	ILE B	359	-11.694	57.430	93.082	1.00 3	37.79		0
ATOM	5767	CB	ILE B	359	-10.827	58.840	96.002	1.00 3	19.33		С
ATOM	5768		ILE B		-11.420	57.935	97.086	1.00 3	11.29	4	С
ATOM	5769		ILE B		-11.877	59.774	95.420	1.00 4		4	č
ATOM	5770		ILE B		-11.978	58.692	98.238	1.00 4			0000
ATOM	5771	N	GLY B		-11.764	56.123	94.897	1.00 3			Ñ
	5772							1.00 4			
MOTA		CA	GLY B		-12.804	55.260	94.359				Č
ATOM	5773	C	GLY B		-12.265	54.016	93.671	1.00 4			Č
ATOM	5774	0	GLY B		-11.394	53.316	94.196	1.00 3			0
ATOM	5775	N	GLY B		-12.795	53.733	92.488	1.00 4			N
ATOM	5776	CA	GLY B	361	-12.347	52.574	91.742	1.00 4	19.53	1	С
ATOM	5777	С	GLY B	361	-12.208	52.907	90.269	1.00 5	52.50	1	C
ATOM	5778	0	GLY B	361	-12.057	54.085	89.923	1.00 6	2.49	+	0
ATOM	5779	N	PRO B	362	-12.257	51.898	89.378	1.00 4	18.87		N
ATOM	5780	CA	PRO B		-12.136	52.099	87.938	1.00 4			c
ATOM	5781	Ċ	PRO B		-13.434	52.656	87.376	1.00 4		4	ċ
ATOM	5782	ŏ	PRO B		-14.472	52.010	87.469	1.00 4			ŏ
	5783	ĊВ	PRO B		-11.847	50.693	87.425	1.00 4			č
ATOM											000
ATOM	5784	CG	PRO B		-12.723	49.871	88.278	1.00 4			č
ATOM	5785	CD	PRO B		-12.502	50.474	89.669	1.00 4			C
ATOM	5786	N	ARG B		-13.371	53.854	86.803	1.00 4			N
ATOM	5787	CA	ARG B		-14.551	54.477	86.236	1.00 4			С
ATOM	5788	С	ARG B		-14.622	54.077	84.783	1.00 4		,	С
ATOM	5789	0	ARG B	363	-13.739	53.375	84.299	1.00 5	51.49		0
ATOM	5790	CB	ARG B	363	-14.458	55.991	86.422	1.00 5	4.78		С
ATOM	5791	CG	ARG B	363	-14.145	56.315	87.872	1.00 6	3.13		С
ATOM	5792	CD	ARG B		-14.508	57.715	88.292	1.00 5			Ċ
ATOM	5793	NE	ARG B		-13.570	58.711	87.803	1.00 4			N
ATOM	5794	cz	ARG B		-13.743	59.405	86.689	1.00 3			¢
ATOM	5795		ARG B		-14.818	59.209	85.943	1.00 1			Ň
	5796						86.336				
ATOM			ARG B			60.317		1.00 4			
ATOM	5797	N	SER B		-15.669	54.479	84.079	1.00 4			N
ATOM	5798	CA	SER B		-15.755	54.114	82.672	1.00 4		,	Č
ATOM	5799	C	SER B		-15.912	55.371	81.838	1.00 5			Č
ATOM	5800	0	SER B		-16.669	56.272	82.203	1.00 6			0
ATOM	5801	CB	SER B	364	-16.929	53.162	82.428	1.00 4	15.42		¢
MOTA	5802	0G	SER B		-18.156	53.755	82.803	1.00 5			0
ATOM	5803	N	TYR B		-15.166	55.441	80.740	1.00 5			N
ATOM	5804	CA	TYR B		-15.238	56.584	79.850	1.00 5			c
ATOM	5805	C	TYR B		-15.648	56.093	78.457	1.00 5			č
ATOM	5806	ŏ	TYR B		-15.192	55.038	77.988	1.00 5			õ
ATOM	5807	СВ	TYR B			57.319	79.786	1.00 5			0000000
					-13.893						č
MOTA	5808	CC	TYR B		-14.018	58.685	79.157	1.00 6			č
ATOM	5809		TYR B		-14.730	59.699	79.795	1.00 6		'	č
MOTA	5810		TYR B		-13.479	58.950	77.892	1.00 5			Ċ
ATOM	5811		TYR B		-14.911	60.947	79.190	1.00 6			C
MOTA	5812		TYR B		-13.651	60.194	77.279	1.00 5			С
MOTA	5813	CZ	TYR B	365	-14.370	61.190	77.933	1.00 6	3.09		Ċ
ATOM	5814	ОН	TYR B	365	-14.553	62.424	77.337	1.00 €	55.91		0
ATOM	5815	N	THR B		-16.511	56.871	77.807	1.00 5			N
ATOM	5816	CA	THR B		-17.028	56.539	76.490	1.00 5			С
ATOM	5817	c	THR B		-16.975	57.753	75.584	1.00 4			č
ATOM	5818	ō	THR B		-17.385	58.838	75.986	1.00 5			ō
	3410	•	6	700		20.030		1.00			-

		00	mun n	266	10 400		76 507	1 00 53 56	
MOTA	5819	СВ	THR B		-18.489	56.112	76.597	1.00 53.56	С
MOTA	5820		THR B		-19.228	57.135	77.280	1.00 58.14	0
MOTA	5821	CG2	THR B	366	-18.611	54.836	77.381	1.00 53.03	С
ATOM	5822	N	ILE B	367	-16.475	57.581	74.364	1.00 46.90	N
ATOM	5823	CA	ILE B		-16.403	58.695	73.406	1.00 53.96	C
ATOM	5824	c	ILE B		-16.819	58.320	71.997	1.00 52.93	č
ATOM	5825	0	ILE B		-16.926	57.139	71.659	1.00 53.28	0
MOTA	5826	CB	ILE B		-14.985	59.305	73.272	1.00 58.74	С
ATOM	5827	CG1	ILE B	367	-13.924	58.202	73.250	1.00 58.91	С
MOTA	5828	CG2	ILE B	367	-14.767	60.342	74.351	1.00 63.43	С
ATOM	5829		ILE B		-13.997	57.279	72.051	1.00 50.07	C
ATOM	5830	N	ALA B		-17.027	59.345	71.173	1.00 59.91	N
									N
ATOM	5831	CA	ALA B		-17.417	59.149	69.781	1.00 62.43	C
MOTA	5832	С	ALA B		-16.222	58.775	68.898	1.00 57.88	С
ATOM	5833	0	ALA B	368	-15.451	59.640	68.465	1.00 57.96	0
ATOM	5834	CB	ALA B	368	-18.088	60.410	69.245	1.00 73.79	С
ATOM	5835	N	VAL B	369	-16.074	57.477	68.662	1.00 51.51	N
ATOM	5836	CA	VAL B		-15.015	56.957	67.826	1.00 49.72	Ċ
ATOM	5837	Č.	VAL B		-14.660	57.962	66.746	1.00 50.98	č
ATOM	5838	0	VAL B		-13.489	58.237	66.484	1.00 50.73	0
ATOM	5839	CB	VAL B		-15.474	55.652	67.166	1.00 54.09	c
MOTA	5840	CG1	VAL B	369	-14.505	55.219	66.093	1.00 56.99	С
ATOM	5841	CG2	VAL B	369	-15.619	54.588	68.218	1.00 61.48	C
ATOM	5842	N	ALA B	370	-15.692	58.513	66.124	1.00 54.79	N
ATOM	5843	CA	ALA B	370	-15.525	59.492	65.057	1.00 59.90	С
ATOM	5844	Ċ	ALA B		-14.701	60.706	65.479	1.00 55.69	č
			ALA B		-13.558	60.871	65.058	1.00 59.19	ŏ
ATOM	5845	O							č
ATOM	5846	CB	ALA B		-16.897	59.944	64.563	1.00 69.60	
MOTA	5847	N	SER B		-15.289	61.548	66.318	1.00 48.90	N
MOTA	5848	CA	SER B		-14.619	62.747	66.783	1.00 48.25	С
MOTA	5849	С	SER B	371	-13.358	62.423	67.593	1.00 44.02	С
ATOM	5850	0	SER B	371	-13.095	63.035	68.629	1.00 46.23	0
ATOM	5851	СB	SER B		-15.584	63.599	67.623	1.00 56.08	C
ATOM	5852	OG	SER B		-15.871	62.996	68.880	1.00 58.94	ō
ATOM	5853	N	LEU B		-12.582	61.456	67.116	1.00 40.16	N
ATOM	5854		LEU B		-11.341	61.088	67.780	1.00 38.78	č
-		CA							č
ATOM	5855	C	LEU B		-10.120	61.503	66.958	1.00 41.62	Č
MOTA	5856	0	LEU B		-9.564	62.587	67.158	1.00 47.58	0
MOTA	5857	CB	LEU B		-11.301	59.578	68.039	1.00 37.09	Č
ATOM	5858	CG	LEU B	372	-10.124	59.082	68.900	1.00 30.31	С
ATOM	5859		LEU B		-10.025	59.910	70.177	1.00 31.09	c
ATOM	5860	CD2	LEU B	372	-10.307	57.613	69.249	1.00 19.07	С
ATOM	5861	N	GLY B	373	-9.709	60.637	66.035	1.00 40.17	N
ATOM	5862	CA	GLY B	373	-8.552	60.924	65.202	1.00 46.24	¢
ATOM	5863	C	GLY B		-8.841	62.101	64.298	1.00 49.50	С
ATOM	5864	ŏ	GLY B		-8.789	61.984	63.081	1.00 40.52	ō
ATOM	5865	Ň	LYS B		-9.135	63.243	64.909	1.00 58.63	N
ATOM	5866	CA	LYS B		-9.455	64.466	64.191	1.00 64.48	ċ
			LYS B		-10.535	64.197	63.172	1.00 66.08	č
ATOM	5867	Ç							õ
ATOM	5868	0	LYS B		-10.728	64.986	62.253	1.00 68.10	ŏ
ATOM	5869	СВ	LYS B		-8.209	65.027	63.496	1.00 64.15	c
ATOM	5870	CG	LYS B		-7.864	66.432	63.942	1.00 72.20	Ç
MOTA	5871	CD	LYS B		-6.431	66.800	63.593	1.00 72.70	Ċ
MOTA	5872	CE	LYS B	374	-6.034	68.156	64.184	1.00 77.53	C
MOTA	5873	NZ	LYS B	374	-6.075	68.198	65.684	1.00 72.68	N
ATOM	5874	N	GLY B	375	-11.233	63.078	63.349	1.00 66.41	N
MOTA	5875	CA	GLY B	375	-12.292	62.693	62.434	1.00 62.04	С
ATOM	5876	С	GLY B	375	-11.839	61.672	61.405	1.00 60.69	С
MOTA	5877	ō	GLY B		-12.635	60.857	60.940	1.00 61.43	Ō
ATOM	5878	N	VAL B	376	-10.555	61.718	61.058	1.00 58.18	N
ATOM	5879	CA	VAL B		-9.959	60.815	60.078	1.00 57.67	C
	5880						60.521	1.00 57.07	Ċ
MOTA		c	VAL B		-9.950	59.361			
ATOM	5881	0	VAL B		-10.806	58.585	60.107	1.00 71.76	0
ATOM	5882	CB	VAL B		-8.509	61.216	59.756	1.00 51.56	c
ATOM	5883		VAL B		-7.872	60.178	58.856	1.00 54.68	c
ATOM	5884		VAL B		-8.488	62.566	59.082	1.00 63.57	C
ATOM	5885	N	ALA B		-8.971	58.989	61.344	1.00 57.39	Ŋ
MOTA	5886	CA	ALA B		-8.873	57.621	61.828	1.00 54.98	С
ATOM	5887	С	ALA B	377	-10.246	57.209	62.316	1.00 57.77	С
ATOM	5888	0	ALA B		-10.799	57.825	63.224	1.00 58.49	0
ATOM	5889	CB	ALA B		-7.871	57.541	62.944	1.00 46.92	С
		N	CYS B		-10.781	56.166	61.690	1.00 59.13	N
ATOM	5890				-12.109	55.624	61.982	1.00 63.50	
ATOM ATOM	5890 5891	CA	( A > M		107				C
MOTA	5891	CA	CYS B		-13 070	55 957	60.R68	1 00 66 64	r
ATOM ATOM	5891 5892	С	CYS B	378	-13.079	55.952 55 884	60.868	1.00 66.64	C
MOTA MOTA MOTA	5891 5892 5893	C O	CYS B	378 378	-14.303	55.884	61.041	1.00 72.37	000
ATOM ATOM ATOM ATOM	5891 5892 5893 5894	C O CB	CYS B CYS B CYS B	378 378 378	-14.303 -12.660	55.884 56.162	61.041 63.290	1.00 72.37 1.00 66.01	С
MOTA MOTA MOTA MOTA MOTA	5891 5892 5893 5894 5895	C O CB SG	CYS B CYS B CYS B	378 378 378 378	-14.303 -12.660 -11.718	55.884 56.162 55.523	61.041 63.290 64.708	1.00 72.37 1.00 66.01 1.00 88.55	c s
MOTA MOTA MOTA MOTA MOTA MOTA	5891 5892 5893 5894 5895 5896	C O CB SG N	CYS B CYS B CYS B CYS B ASN B	378 378 378 378 378 378	-14.303 -12.660 -11.718 -12.519	55.884 56.162 55.523 56.313	61.041 63.290 64.708 59.716	1.00 72.37 1.00 66.01 1.00 88.55 1.00 66.49	C S N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5891 5892 5893 5894 5895 5896 5897	C O CB SG N CA	CYS B CYS B CYS B CYS B ASN B	378 378 378 378 378 379 379	-14.303 -12.660 -11.718 -12.519 -13.304	55.884 56.162 55.523 56.313 56.641	61.041 63.290 64.708 59.716 58.523	1.00 72.37 1.00 66.01 1.00 88.55 1.00 66.49 1.00 65.90	C S N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5891 5892 5893 5894 5895 5896 5897 5898	C O CB SG N CA C	CYS B CYS B CYS B CYS B ASN B ASN B	378 378 378 378 379 379 379	-14.303 -12.660 -11.718 -12.519 -13.304 -12.754	55.884 56.162 55.523 56.313 56.641 55.783	61.041 63.290 64.708 59.716 58.523 57.384	1.00 72.37 1.00 66.01 1.00 88.55 1.00 66.49 1.00 65.90 1.00 64.13	C 5 N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5891 5892 5893 5894 5895 5896 5897	C O CB SG N CA	CYS B CYS B CYS B CYS B ASN B	378 378 378 378 379 379 379	-14.303 -12.660 -11.718 -12.519 -13.304	55.884 56.162 55.523 56.313 56.641	61.041 63.290 64.708 59.716 58.523	1.00 72.37 1.00 66.01 1.00 88.55 1.00 66.49 1.00 65.90	C S N C

MOTA	5900	СВ	ASN	В	379	-13.142	58.118	58.184	1.00 70.	43 C
ATOM	5901	CG	ASN		379	-14.141	58.591	57.153	1.00 77.	
MOTA	5902		ASN		379	-15.339	58.673	57.422	1.00 83.	
MOTA	5903				379	-13.657	58.888	55.956	1.00 79.	
MOTA	5904	N	-		380	-13.471	54.711	57.023	1.00 67.	
MOTA	5905	CA	PRO		380	-14.742	54.268	57.607	1.00 73.	
MOTA	5906	Č	PRO		380	-14.578	53.382	58.854	1.00 75.	
ATOM	5907	0	PRO		380	-15.208	53.604	59.891	1.00 81.	
ATOM ATOM	5908 5909	CB	PRO PRO		380 380	-15.391 -14.213	53.513	56.451	1.00 76.	
ATOM	5910	CD	PRO		380	-13.122	52.835 53.883	55.823 55.858	1.00 75.1	
MOTA	5911	N	ALA			-13.693	52.394	58.742	1.00 72.	
MOTA	5912	CA	ALA			-13.406	51.442	59.818	1.00 70.	13 C
MOTA	5913	C	ALA			-12.163	51.751	60.659	1.00 68.	84 C
MOTA	5914	0	ALA			-11.176	52.278	60.163	1.00 60.	
ATOM	5915				381	-13.287	50.038	59.228	1.00 75.	
ATOM	5916 5917	N CA	CYS		382	-12.227 -11.132	51.388	61.936	1.00 71.	
ATOM ATOM	5918	C	CYS		382	-10.856	51.594 50.319	62.870 63.596	1.00 71.	
ATOM	5919	ŏ	CYS			-11.741	49.779	64.254	1.00 72.	
ATOM	5920	CB	CYS		382	-11.486	52.640	63.920	1.00 75.	13 C
MOTA	5921	SG	CYS			-10.471	54.142	63.895	1.00 80.	32 S
MOTA	5922	N	PHE			-9.634	49.830	63.498	1.00 63.	36 N
ATOM	5923	CA	PHE		383	-9.328	48.624	64.232	1.00 61.	05 C
MOTA MOTA	5924 5925	C C	PHE	В	383	-8.533 -7.405	49.057 49.531	65.453 65.330	1.00 54.1	
MOTA	5926	СВ	PHE		383	-8.534	47.636	63.387	1.00 70.4	
ATOM	5927	CG	PHE			-8.450	46.264	64.004	1.00 83.	
MOTA	5928	CD1		В	383	-9.587	45.650	64.527	1.00 87.	52 C
ATOM	5929	CD2			383	-7.248	45.574	64.036	1.00 96.	23 C
ATOM	5930	CEl			383	-9.520	44.380	65.088	1.00 98.	
MOTA	5931		PHE			-7.168	44.299	64.595	1.00103.	16 C
ATOM ATOM	5932 5933	CZ N	ILE			-8.311 -9.141	43.700 48.900	65.113 66.624	1.00103.	
ATOM	5934	CA	ILE			-8.516	49.297	67.867	1.00 45.	
ATOM	5935	C	ILE			-8.029	48.124	68.677	1.00 48.	
ATOM	5936	0	ILE		384	-8.790	47.219	69.009	1.00 51.	85 O
MOTA	5937	CB	ILE			-9.494	50.062	68.742	1.00 48.	
MOTA	5938		ILE		384	-10.259	51.056	67.887	1.00 48.	
ATOM	5939		ILE			-8.747	50.769	69.862	1.00 55.	
MOTA MOTA	5940 5941	CD1 N	ILE		385	-11.433 -6.757	51.663 48.152	68.581 69.019	1.00 53.1	
ATOM	5942	CA	THR		385	-6.202	47.085	69.807	1.00 48.	02 C
ATOM	5943	C	THR			-5.663	47.726	71.080	1.00 42.4	
MOTA	5944	0	THR			-4.704	48.508	71.034	1.00 46.	44 O
MOTA	5945	CB	THR			-5.064	46.374	69.025	1.00 51.	
MOTA	5946		THR		385	-3.884	47.189	69.016	1.00 60.1	29 0
ATOM ATOM	5947 5948	CG2 N	THR			-5.478 -6.299	46.134 47.436	67.568 72.214	1.00 51.1	
ATOM	5949	CA	GLN		386	-5.819	48.012	73.468	1.00 27.	
ATOM	5950	C.	GLN		386	-4.364	47.633	73.517	1.00 30.	
MOTA	5951	0	GLN	В	386	-4.022	46.471	73.370	1.00 43.	33 0
MOTA	5952	CB	GLN		386	-6.537	47.442	74.691	1.00 19.	21 C
ATOM	5953	CG	GLN		386	-6.116	48.141	75.964	1.00 29.3	27 C
MOTA MOTA	5954 5955	CD OE1	GLN GLN		386	-6.988 -6.554	47.796 47.102	77.157 78.062	1.00 37.5	
ATOM	5956		GLN		386	-8.224	48.281	77.158	1.00 34.3	
ATOM	5957	N	LEU			-3.495	48.615	73.677	1.00 27.	
MOTA	5958	CA	LEU	В	387	-2.080	48.313	73.699	1.00 18.	51 C
ATOM	5959	C	LEU			-1.580	48.409	75.117	1.00 22.3	
ATOM	5960	0	LEU			-0.413	48.123	75.387	1.00 28.0	65 0
ATOM ATOM	5961 5962	CB CG	LEU			-1.329 -0.052	49.294 48.767	72.796 72.147	1.00 14.0	
ATOM	5963	CD1				-0.378	47.537	71.320	1.00 23.3	
ATOM	5964	CD2				0.559	49.836	71.259	1.00 31.0	
MOTA	5965	N	LEU	В	388	-2.483	48.802	76.019	1.00 21.3	17 N
ATOM	5966	CA	LEU			-2.172	48.986	77.446	1.00 19.0	
ATOM	5967	Č	LEU			-3.451	49.247	78.251	1.00 19.	
ATOM ATOM	5968 5969	O CB	LEU			-4.398	49.874 50.163	77.769 77.625	1.00 21.1	
ATOM	5970	CG	LEU			-1.208 0.184	49.979	78.220	1.00 17.5	
ATOM	5971	CD1				0.726	48.600	77.929	1.00 12.	74 C
MOTA	5972	CD2				1.098	51.056	77.638	1.00 21.5	55 C
MOTA	5973	N	PRO			-3.468	48.827	79.516	1.00 20.4	41 N
MOTA	5974	CA	PRO			-2.386	48.117	80.203	1.00 33.3	
MOTA MOTA	5975 5976	С О	PRO PRO			-2.324 -1.639	46.606 45.883	79.934 80.649	1.00 41.9	
ATOM	5977	CB	PRO			-1.639 -2.695	48.413	81.657	1.00 35.4	
MOTA	5978	CG	PRO			-4.191	48.283	81.687	1.00 28.	B0 C
MOTA	5979	CD	PRO	В	389	-4.622	49.026	80.413	1.00 19.4	B5 C
MOTA	5980	N	VAL	В	390	-3.007	46.124	78.897	1.00 45.	28 N

ATOM	5981	CA	VAL E	3 390	-3.011	44.686	78.647	1.00 50.03	С
ATOM	5982	С	VAL E	3 3 9 0	-3.034	44.223	77.197	1.00 56.62	С
ATOM	5983	ŏ	VAL E		-3.369	43.075	76.904	1.00 61.87	ŏ
MOTA	5984	CB	VAL E		-4.186	44.036	79.370	1.00 48.80	Ç
ATOM	5985	CG1	VAL E		-4.098	44.301	80.849	1.00 42.23	С
ATOM	5986	CG2	VAL E	3 390	-5.479	44.604	78.813	1.00 53.36	С
ATOM	5987	N	LYS E	3 3 9 1	-2.657	45.098	76.283	1.00 59.77	N
ATOM	5988	CA	LYS E		-2.647	44.723	74.870	1.00 60.79	Ċ
ATOM	5989	С	LYS E		-3.673	43.649	74.510	1.00 56.27	С
ATOM	5990	0	LYS E	3 391	-3.330	42.473	74.361	1.00 51.28	0
ATOM	5991	CB	LYS E	3 391	-1.251	44.248	74.446	1.00 60.41	С
ATOM	5992	CG	LYS E	3 3 9 1	-1.102	44.083	72.920	1.00 65.59	С
ATOM	5993	CD	LYS E		0.300	43.695	72.407	1.00 67.80	č
					0.479	43.992			č
ATOM	5994	CE	LYS E				70.897	1.00 68.90	
MOTA	5995	NZ	LYS E		0.432	42.704	70.094	1.00 67.32	N
ATOM	5996	N	ARG E	3 392	-4.931	44.070	74.395	1.00 55.13	N
ATOM	5997	CA	ARG E	3 392	-6.023	43.182	74.036	1.00 55.86	С
MOTA	5998	C	ARG E	392	-6.479	43.580	72.628	1.00 54.10	C
ATOM	5999	ŏ	ARG E		-6.277	44.716	72.191	1.00 54.13	ō
ATOM	6000	CB	ARG E		-7.180	43.342	75.023	1.00 64.65	Ç
ATOM	6001	CG	ARG E	3 392	-8.006	42.078	75.224	1.00 78.88	С
ATOM	6002	CD	ARG E	3 392	-9.451	42.397	75.614	1.00 87.47	С
ATOM	6003	NE	ARG E	3 392	-9.546	43.414	76.664	1.00 98.24	N
ATOM	6004	CZ	ARG E		-9.077	43.272	77.903	1.00102.06	Ċ
									N
ATOM	6005	NH1			-8.475	42.148	78.263	1.00104.13	
ATOM	6006		ARG E		-9.201	44.260	78.784	1.00102.28	N
ATOM	6007	N	LYS E		-7.122	42.651	71.933	1.00 56.38	N
ATOM	6008	CA	LYS E	3 393	<i>-</i> 7.587	42.894	70.574	1.00 57.73	С
ATOM	6009	Č	LYS F		-9.068	43.246	70.506	1.00 62.23	С
ATOM	6010	ŏ	LYS E		-9.912	42.361	70.385	1.00 70.67	ŏ
							69.717	1.00 60.70	Č
ATOM	6011	СВ	LYS I		-7.336	41.656			Č
MOTA	6012	CG	LYS E		-6.324	41.828	68.591	1.00 64.98	Ċ
MOTA	6013	CD	LYS F	3 393	-6.131	40.503	67.865	1.00 69.41	С
ATOM	6014	ÇE	LYS E	3 3 9 3	-4.949	40.549	66.911	1.00 66.84	С
ATOM	6015	NZ	LYS I		-4.704	39.218	66.285	1.00 71.48	N
ATOM	6016	N	LEU E		-9.392	44.531	70.581	1.00 59.79	N
ATOM	6017	CA	LEU I		-10.791	44.944	70.499	1.00 57.57	C
MOTA	6018	С	LEU I		-11.208	44.787	69.049	1.00 60.43	С
MOTA	6019	0	LEU E	3 394	-10.345	44.726	68.174	1.00 65.60	0
ATOM	6020	СВ	LEU E	3 3 9 4	-10.917	46.388	70.946	1.00 54.96	С
ATOM	6021	CG	LEU I		-10.267	46.558	72.318	1.00 52.67	Ċ
							72.704	1.00 60.31	č
MOTA	6022		LEU I		-10.265	48.016			Č
ATOM	6023		LEU I		-11.018	45.729	73.341	1.00 64.58	C
MOTA	6024	N	GLY I	3 395	-12.511	44.729	68.784	1.00 64.48	N
MOTA	6025	CA	GLY F	3 395	-12.971	44.551	67.409	1.00 72.78	С
ATOM	6026	С	GLY I		-12.821	45.719	66.438	1.00 71.45	С
ATOM	6027	ŏ	GLY I		-12.020	46.629	66.660	1.00 75.01	Ō
							65.340	1.00 67.34	Ň
ATOM	6028	N	PHE I		-13.578	45.677			
MOTA	6029	CA		3 396	-13.554	46.742	64.331	1.00 64.20	Ç
ATOM	6030	С	PHE I	3 396	-14.505	47.844	64.784	1.00 55.21	С
ATOM	6031	0	PHE I	3 396	-15.501	47.572	65.441	1.00 57.53	0
MOTA	6032	CB	PHE I	3 396	-14.028	46.216	62.968	1.00 82.65	С
ATOM	6033	CG		3 3 9 6	-13.033	45.316	62.265	1.00102.32	c
ATOM	6034		PHE I		-12.184	45.818	61.281	1.00111.78	č
									č
ATOM	6035		PHE I		-12.960	43.961	62.570	1.00109.39	Č
MOTA	6036	CEl	PHE I		-11.276	44.985	60.615	1.00115.13	Ċ
ATOM	6037	CE2	PHE I		-12.055	43.121	61.910	1.00113.01	С
ATOM	6038	CZ	PHE E	3 3 9 6	-11.216	43.635	60.930	1.00113.32	С
ATOM	6039	N	TYR I		-14.201	49.085	64.434	1.00 51.42	N
ATOM	6040	CA	TYR I		-15.059	50.198	64.807	1.00 57.23	C
ATOM	6041	č	TYR I		-15.357	51.085	63.607	1.00 61.72	č
ATOM	6042	0	TYR I		-14.452	51.486	62.879	1.00 60.46	. 0
ATOM	6043	CB	TYR I		-14.412	51.024	65.919	1.00 64.37	. C
ATOM	6044	CG	TYR I		-14.472	50.359	67.274	1.00 77.41	·
MOTA	6045	CD1	TYR F	3 397	-13.654	49.276	67.584	1.00 86.02	С
MOTA	6046		TYR I		-15.385	50.790	68.236	1.00 87.56	С
ATOM	6047	CEI			-13.746	48.633	68.823	1.00 95.71	ċ
			TYR I				69.478	1.00 92.49	č
ATOM	6048	CE2			-15.490	50.158			č
ATOM	6049	CZ	TYR E		-14.669	49.078	69.766	1.00 96.36	č
ATOM	6050	ОН	TYR I		-14.784	48.436	70.984	1.00 92.61	0
ATOM	6051	N	GLU I	3 398	-16.631	51.373	63.375	1.00 67.89	N
MOTA	6052	CA	GLU I	3 3 9 8	-16.990	52.224	62.253	1.00 76.13	С
ATOM	6053	c		398	-16.839	53.649	62.682	1.00 74.01	C
MOTA	6054	ŏ		398	-16.544	53.937	63.844	1.00 75.69	ŏ
						51.980	61.808		
ATOM	6055	CB	GLU I		-18.430			1.00 86.18	č
ATOM	6056	CG		398	-18.589	50.683	61.075	1.00107.33	C C
MOTA	6057	CD		398	-17.867	49.567	61.790	1.00123.23	С
ATOM	6058	OE1	GLU I	398	-18.252	49.262	62.939	1.00129.75	0
ATOM	6059		GLU I		-16.904	49.013	61.217	1.00128.47	0
ATOM	6060	N		399	-17.030	54.547	61.732	1.00 70.53	N
ATOM	6061	CA		399	-16.924	55.953	62.032	1.00 69.74	Ċ
		-A			10.724			3.22 03.77	_

N/MON4	6062	С	mp o	B 399	-17.957	56.198	63.122	1.00 69.71	С
ATOM									
MOTA	6063	0		B 399	-17.608	56.597	64.233	1.00 70.76	0
MOTA	6064	CB	TRP	B 399	-17.228	56.778	60.783	1.00 68.11	С
ATOM	6065	CG	TRP	B 399	-16.673	58.158	60.844	1.00 69.78	С
			TRP		-15.362			1.00 68.46	č
MOTA	6066					58.525	60.738		Č
MOTA	6067	CD2	TRP	в 399	-17.410	59.361	61.072	1.00 76.78	С
MOTA	6068	NE1	TRP	B 399	-15.235	59.884	60.888	1.00 71.48	N
	6069	CE2	TRP		-16.479	60.423	61.095	1.00 78.32	Ċ
ATOM									
MOTA	6070	CE3	TRP		-18.772	59.647	61.264	1.00 85.58	С
MOTA	6071	CZ2	TRP	B 399	-16.867	61.755	61.304	1.00 86.28	Ċ
ATOM	6072	CZ3	TRP	B 399	-19.160	60.974	61.473	1.00 89.12	С
				B 399	-18.209	62.009	61.491	1.00 91.47	č
MOTA	6073								
ATOM	6074	N		B 400	-19.222	55.911	62.816	1.00 68.79	N
ATOM	6075	CA	THR	B 400	-20.306	56.105	63.784	1.00 74.00	С
ATOM	6076	С	THR	B 400	-19.941	55.562	65.162	1.00 77.61	С
									ŏ
ATOM	6077	0	THR		-20.103	56.252	66.173	1.00 85.51	
ATOM	6078	CB	THR	B 400	-21.608	55.403	63.336	1.00 72.03	С
MOTA	6079	OG1	THR	B 400	-21.284	54.169	62.681	1.00 78.00	0
ATOM	6080	CC2	THR	B 400	-22.412	56.297	62.406	1.00 71.81	С
									Ň
ATOM	6081	N		B 401	-19.443	54.325	65.169	1.00 75.75	
ATOM	6082	CA	SER	B 401	-19.037	53.592	66.370	1.00 71.37	С
ATOM	6083	С	SER	B 401	-18.803	54.403	67.649	1.00 64.98	С
ATOM	6084	ō		B 401	-18.296	55.530	67.605	1.00 66.87	0
									č
ATOM	6085	CB	SER		-17.783	52.763	66.064	1.00 79.12	
ATOM	6086	OG		B 401	-18.066	51.735	65.133	1.00 93.93	0
MOTA	6087	N	ARG	B 402	-19.185	53.814	68.785	1.00 58.91	N
ATOM	6088	CA		B 402	-19.010	54.440	70.097	1.00 60.47	C
									č
ATOM	6089	C		B 402	-18.072	53.555	70.926	1.00 60.73	
MOTA	6090	0	ARG	B 402	-18.393	52.403	71.217	1.00 65.99	0
ATOM	6091	CB		B 402	-20.356	54.571	70.821	1.00 56.93	С
ATOM	6092	CG		B 402	-20.735	55.997	71.206	1.00 67.01	č
ATOM	6093	CD	ARG		-21.916	56.011	72.174	1.00 79.70	С
MOTA	6094	NE	ARG	B 402	-22.307	57.362	72.592	1.00 93.49	N
MOTA	6095	CZ	ARG	B 402	-21.562	58.171	73.345	1.00 97.84	С
ATOM	6096		ARG		-20.369	57.780	73.777	1.00102.38	N
						57.700			
MOTA	6097	NH2		B 402	-22.012	59.375	73.673	1.00100.40	N
ATOM	6098	N	LEU	B 403	-16.906	54.083	71.294	1.00 58.80	N
ATOM	6099	CA	LEU	B 403	-15.962	53.308	72.094	1.00 54.80	С
ATOM	6100			B 403	-16.064	53.611	73.580	1.00 58.34	Č
		Ç							
ATOM	6101	0	LEU	B 403	-15.994	54.765	74.020	1.00 61.62	0
ATOM	6102	CB	LEU	B 403	-14.519	53.527	71.641	1.00 56.95	С
ATOM	6103	CG		B 403	-13.565	52.637	72.445	1.00 59.29	С
									č
MOTA	6104			B 403	-14.093	51.221	72.409	1.00 66.38	
ATOM	6105	CD2	LEU	B 403	-12.159	52.689	71.894	1.00 60.54	С
ATOM	6106	N	ARG	B 404	-16.241	52.543	74.343	1.00 61.81	N
	6107	CA		B 404	-16.368	52.617	75.787	1.00 64.91	С
MOTA									
ATOM	6108	С		B 404	-15.286	51.789	76.448	1.00 62.09	C
ATOM	6109	0	ARG	B 404	-14.918	50.715	75.957	1.00 62.39	0
ATOM	6110	CB	ARG	B 404	-17.725	52.077	76.217	1.00 74.76	С
ATOM	6111	CG		B 404	-17.807	51.740	77.694	1.00 87.75	C
							78.064	1.00101.27	č
MOTA	6112	CD		B 404	-19.203	51.278			
ATOM	6113	NE	ARG	B 404	-19.326	51.032	79.496	1.00111.43	N
MOTA	6114	CZ	ARG	B 404	-20.483	50.864	80.125	1.00115.18	С
MOTA	6115			B 404	-21.620	50.914	79.442	1.00121.83	N
							81.436	1.00114.89	N
ATOM	6116			B 404	-20.504	50.658			
ATOM	6117	N		B 405	-14.790	52.274	77.576	1.00 59.43	N
ATOM	6118	CA	SER	B 405	-13.762	51.544	78.274	1.00 62.10	С
ATOM	6119	С	SER	B 405	-13.633	52.062	79.692	1.00 57.60	С
ATOM	6120	õ		B 405	-13.913	53.223	79.965	1.00 63.06	0
									č
ATOM	6121	СВ		B 405	-12.436	51.691	77.531	1.00 66.47	
ATOM	6122	OG	SER	B 405	-11.509	50.688	77.932	1.00 72.72	0
MOTA	6123	N	HIS	B 406	-13.209	51.182	80.591	1.00 49.38	N
ATOM	6124	CA		B 406	-13.027	51.536	81.983	1.00 43.52	С
							82.226	1.00 41.81	č
ATOM	6125	C		B 406	-11.541	51.839			
MOTA	6126	0		B 406	-10.659	51.210	81.632	1.00 42.20	0
ATOM	6127	CB	HIS	B 406	-13.485	50.386	82.879	1.00 48.35	C
ATOM	6128	CG		B 406	-14.881	49.923	82.604	1.00 53.45	С
ATOM	6129			B 406	-15.880	49.957	83.552	1.00 62.61	N
	6130					-49-402-	-81 <del>-</del> 488-	1006064-	
ATOM	6131			B 406	-16.996	49.478	83.033	1.00 64.26	C
ATOM	6132	NE2	HIS	B 406	-16.756	49.134	81.782	1.00 67.22	N
MOTA	6133	N		B 407	-11.263	52.797	83.104	1.00 39.08	N
		CA		B 407	-9.888	53.193	83.419	1.00 41.63	č
ATOM	6134								
ATOM	6135	Ç		B 407	-9.629	53.263	84.934	1.00 43.98	Č
MOTA	6136	0		B 407	-10.368	53.929	85.665	1.00 56.43	0
ATOM	6137	CB	ILE	B 407	-9.602	54.568	82.817	1.00 35.57	С
ATOM	6138			B 407	-9.846	54.533	81.314	1.00 21.75	č
							83.148		č
ATOM	6139			B 407	-8.179	55.007		1.00 38.47	
ATOM	6140			B 407	-10.134	55.875	80.751	1.00 19.17	C
ATOM	6141	N	ASN	B 408	-8.573	52.591	85.396	1.00 36.98	N
ATOM	6142	CA		B 408	-8.236	52.579	86.830	1.00 25.77	С
	16			00	0.230			2.02 20.77	•

ATOM	6143	С	ASN	R	408	-7.758	53.942	87.340	1.00 17.60	С
	6144	ō	ASN		408	-7.226	54.753			ŏ
MOTA								86.579	1.00 3.31	
MOTA	6145	CB	ASN		408	-7.142	51.535	87.143	1.00 29.76	c
ATOM	6146	CG	ASN		408	-7.573	50.097	86.840	1.00 32.06	С
ATOM	6147	OD1	ASN	В	408	-8.755	49.756	86.900	1.00 45.34	0
MOTA	6148	ND2	ASN	В	408	-6.601	49.243	86.543	1.00 29.00	N
MOTA	6149	N	PRO	В	409	-7.949	54.206	88.638	1.00 14.38	N
	6150	CA	PRO		409	-7.522	55.477	89.225	1.00 29.19	Ċ
MOTA					_					<u> </u>
MOTA	6151	C	PRO		409	-6.031	55.712	88.995	1.00 28.58	C
MOTA	6152	0	PRO		409	-5.221	54.817	89.236	1.00 25.09	0
MOTA	6153	CB	PRO	В	409	-7.870	55.303	90.714	1.00 27.72	С
MOTA	6154	CG	PRO	В	409	-9.109	54.488	90.668	1.00 19.87	Ċ
ATOM	6155	CD	PRO		409	-8.755	53.431	89.595	1.00 13.43	Ċ
MOTA	6156	N	THR		410	-5.682	56.917	88.542	1.00 25.64	N
										Ċ
ATOM	6157	CA	THR		410	-4.297	57.314	88.274	1.00 21.41	Č
MOTA	6158	C	THR		410	-3.670	56.447	87.192	1.00 19.06	Ċ
MOTA	6159	0	THR	В	410	-2.483	56.569	86.894	1.00 20.31	0
MOTA	6160	CB	THR	В	410	-3.390	57.249	89.550	1.00 22.26	Ċ
MOTA	6161	OG1	THR	В	410	-2.837	55.936	89.705	1.00 25.09	0
MOTA	6162	CG2	THR	В	410	-4.193	57.590	90.795	1.00 26.29	С
ATOM	6163	N	GLY		411	-4.477	55.568	86.604	1.00 9.30	N
ATOM	6164	CA	GLY		411	-3.988	54.698	85.548	1.00 15.00	ċ
										č
MOTA	6165	C	GLY		411	-4.227	55.287	84.159	1.00 20.58	C
MOTA	6166	0	GLY		411	-4.689	56.431	84.038	1.00 23.53	0
MOTA	6167	N	THR	₿	412	-3.927	54.505	83.114	1.00 26.18	N
MOTA	6168	CA	THR	В	412	-4.098	54.954	81.735	1.00 25.29	C
ATOM	6169	С	THR	В	412	-4.343	53.803	80.769	1.00 28.68	С
ATOM	6170	ŏ	THR		412	-3.698	52.764	80.874	1.00 34.15	ō
							55.702	81.244	1.00 18.21	č
ATOM	6171	CB	THR		412	-2.847				ŏ
MOTA	6172		THR		412	-2.489	56.709	82.196	1.00 11.12	
MOTA	6173		THR			-3.108	56.351	79.892	1.00 23.07	C
MOTA	6174	N	VAL			-5.280	53.986	79.838	1.00 26.41	N
ATOM	6175	CA	VAL	В	413	-5.567	52.970	78.822	1.00 21.92	С
MOTA	6176	С	VAL	В	413	-5.085	53.513	77.495	1.00 24.79	С
ATOM	6177	0	VAL	В	413	-5.624	54.495	76.985	1.00 27.66	0
ATOM	6178	CB	VAL	В	413	-7.064	52.669	78.687	1.00 21.57	С
ATOM	6179		VAL	В	413	-7.299	51.808	77.455	1.00 8.29	С
ATOM	6180		VAL		413	-7.567	51.969	79.942	1.00 24.91	С
ATOM	6181	N	LEU			-4.061	52.871	76.948	1.00 28.47	N
MOTA	6182	CA	LEU			-3.467	53.271	75.680	1.00 24.92	
								74.534	1.00 18.79	C C
MOTA	6183	C	LEU			-4.054	52.477			ò
ATOM	6184	0	LEU			-4.067	51.247	74.567	1.00 21.81	ŏ
MOTA	6185	CB	LEU			-1.965	53.043	75.728	1.00 26.69	c
ATOM	6186	CG	LEU			-1.217	53.357	74.449	1.00 23.20	c c
ATOM	6187	CD1	LEU	В	414	-1.500	54.788	74.061	1.00 18.54	c
ATOM	6188	CD2	LEU	В	414	0.263	53.126	74.666	1.00 23.23	
MOTA	6189	N	LEU	В	415	-4.537	53.189	73.522	1.00 17.41	N
ATOM	6190	CA	LEU	В	415	-5.126	52.557	72.355	1.00 22.76	С
ATOM	6191	Ċ	LEU			-4.411	52.913	71.083	1.00 25.05	С
MOTA	6192	ŏ	LEU		415	-3.783	53.961	70.989	1.00 34.70	0
ATOM	6193	СВ	LEU			-6.567	52.993	72.210	1.00 26.86	č
ATOM	6194		LEU			-7.470	52.509	73.323	1.00 31.67	c c
		CG						73.117	1.00 36.91	č
MOTA	6195		LEU			-8.831	53.093			C
MOTA	6196		LEU			-7.524	50.999	73.309	1.00 31.07	
ATOM	6197	N	GLN			-4.524	52.034	70.098	1.00 23.81	Ŋ
MOTA	6198	CA	GLN	В	416	-3.936	52.272	68.787	1.00 33.37	C
MOTA	6199	С	GLN	В	416	-4.960	51.970	67.718	1.00 36.57	С
ATOM	6200	0	GLN	В	416	-5.472	50.852	67.633	1.00 40.97	0
MOTA	6201	CB	GLN	В	416	-2.725	51.392	68.568	1.00 31.12	С
MOTA	6202	CG	GLN			-2.138	51.548	67.203	1.00 42.89	С
MOTA	6203	CD	GLN			-0.975	50.645	66.985	1.00 63.66	С
ATOM	6204		GLN			0.082	50.834	67.590	1.00 72.11	Ó
ATOM	6205		GLN			-1.158	49.631	66.134	1.00 73.16	N
						-5.250	52.976	66.901	1.00 39.62	N
ATOM	6206	N	LEU						1.00 41.44	č
ATOM	6207	CA	LEU			-6.230	52.845	65.833		č
ATOM	6208	Ċ	LEU			-5.594	52.788	64.461	1.00 53.96	
ATOM	6209	0	LEU			-4.741	53.598	64.117	1.00 54.02	0
ATOM	6210	СВ	LEU			-7.202	54.022	65.860	1.00 26.40	c
MOTA	6211	CG	LEU			-8.036	54.223	67.120	1.00 15.38	C
MOTA	6212		LEU			-7.171	54.382	68.370	1.00 23.14	С
ATOM	6213	CD2	LEU			-8.879	55.455	66.908	1.00 14.02	С
MOTA	6214	N	GLU	В	418	-5.985	51.810	63.674	1.00 63.47	N
ATOM	6215	CA	GLU			-5.456	51.767	62.348	1.00 73.65	С
ATOM	6216	C	GLU			-6.658	51.917	61.447	1.00 76.75	С
ATOM	6217	ŏ	GLU			-7.775	51.539	61.808	1.00 78.62	0
ATOM	6218	ČВ	GLU			-4.722	50.468	62.085	1.00 79.80	С
ATOM	6219	CG	GLU			-3.697	50.630	60.993	1.00 93.59	С
ATOM	6220	CD	GLU			-2.521	49.711	61.182	1.00105.77	Ċ
ATOM	6221		CLU			-2.731	48.476	61.225	1.00116.13	ŏ
ATOM	6222		GLU			-1.384	50.223	61.269	1.00110.78	ŏ
ATOM	6223	N	ASN			-6.446	52.498	60.279	1.00 76.36	N
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ATOM 6224 ATOM 6225 ATOM 6226 ATOM 6227 ATOM 6228 ATOM 6229 ATOM 6230 ATOM 6231 ATOM 6231 ATOM 6233 ATOM 6234 ATOM 6235 ATOM 6235 ATOM 6236 ATOM 6237 ATOM 6238 ATOM 6238 ATOM 6238 ATOM 6238 ATOM 6240 ATOM 6241 ATOM 6242 ATOM 6242 ATOM 6244 ATOM 6242 ATOM 6244 ATOM 6245 ATOM 6245 ATOM 6245 ATOM 6245 ATOM 6247 ATOM 6247 ATOM 6247 ATOM 6247 ATOM 6248 ATOM 6247 ATOM 6247 ATOM 6247 ATOM 6250 ATOM 6250 ATOM 6251 ATOM 6253 ATOM 6253 ATOM 6253 ATOM 6254 TER 6255	CA ASN B 419 C ASN B 419 C ASN B 419 CB ASN B 419 CG ASN B 419 ND1 ASN B 419 N THR B 420 CA THR B 420 C THR B 421 C MET B 422 C MET B 421 C MET B 421 C MET B 421 C MET B 420	-7.554 52.691 59.373 1.00 77.56 -7.653 51.563 58.356 1.00 75.57 -6.644 51.082 57.850 1.00 76.41 -7.402 54.019 58.659 1.00 80.92 -8.722 54.563 58.184 1.00 87.29 -9.483 53.872 57.516 1.00 93.45 -9.005 55.806 58.529 1.00 90.20 -8.881 51.135 58.078 1.00 72.97 -9.149 50.072 57.109 1.00 71.00 -10.561 50.193 56.538 1.00 73.41 -11.200 51.239 56.644 1.00 75.04 -9:025 48.685 57.739 1.00 65.75 -9.227 47.685 56.728 1.00 73.99 -10.074 48.511 58.818 1.00 66.26 -11.049 49.117 55.935 1.00 78.01 -12.389 49.129 55.380 1.00 86.83 -12.964 47.257 54.108 1.00 86.83 -12.964 47.257 54.108 1.00 83.65 -10.943 50.900 51.858 1.00 83.65 -10.943 50.900 51.858 1.00 90.16 -13.225 47.055 56.357 1.00101.21 -13.782 45.697 56.353 1.00105.85 -15.289 45.733 56.464 1.00105.71 -15.948 46.733 56.464 1.00102.36 -13.464 44.958 57.667 1.00109.29 -14.665 44.696 58.604 1.00113.03 -15.131 45.945 59.342 1.00113.05 -15.985 45.875 60.229 1.00112.27 -14.572 47.095 58.974 1.00111.06	CCOCCONNCCOCNCCSCNCCOCCON
		CARBOHYDRATE CHAIN COORDINATES	
HETATM 6256 HETATM 6259 HETATM 6259 HETATM 6260 HETATM 6261 HETATM 6261 HETATM 6263 HETATM 6263 HETATM 6265 HETATM 6266 HETATM 6266 HETATM 6266 HETATM 6267 HETATM 6267 HETATM 6270 HETATM 6270 HETATM 6270 HETATM 6271 HETATM 6271 HETATM 6271 HETATM 6273 HETATM 6274 HETATM 6274 HETATM 6274 HETATM 6274 HETATM 6274 HETATM 6275 HETATM 6276 HETATM 6276 HETATM 6276 HETATM 6281	tom    YPE   Resid   #	X	000000000000000000000000000000000000000

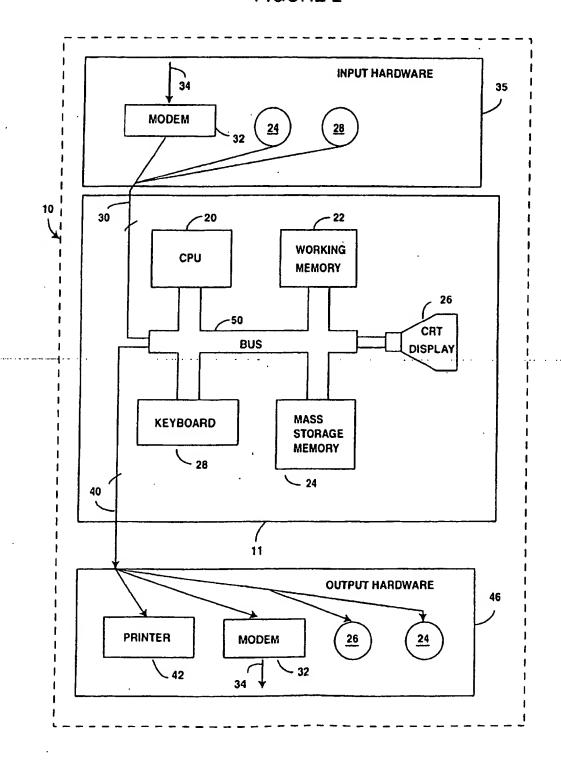
C4	NAG D 693	-17.268	44.337 131.492	1.00101.09	С
	NAG D 693				č
C5		-18.298	44.494 130.357	1.00103.07	С
C6	NAG D 693	-18.792	43.169 129.810	1.00113.86	С
C7	NAG D 693	-18.788	48.418 133.800	1.00 79.96	C
					c
				1.00 /4.50	N
03	NAG D 693	· -16.096	45.518 133.268	1.00 68.40	0
04	NAG D 693				ō
Ų5				1.00 83.65	0
06	NAG D 693	-17.872	42.123 130.080	1.00132.47	0
07	NAG D 693	-19 902			0
					· ·
					С
C2	MAN D 694	-14.749	41.758 130.880	1.00146.70	C
C3	MAN D 694	-13.858	40.839 131.720	1.00151.60	Ċ
					č
					Ų.
C5	MAN D 694	-13.537	42.798 133.296	1.00151.15	С
C6	MAN D 694	-12.576	43.755 133.981	1.00159.97	¢
	MAN D 694		42 335 120 820		Ö
					0
04	MAN D 694	-12.068	40.865 133.333	1.00152.15	0
05	MAN D 694	-14.358	43.607 132.435	1.00142.39	0
					0
C1	MAN D 695	-10.712	44.461 132.700	1.00187.11	С
C2	MAN D 695	-10.548	43.889 131.286	1.00193.26	С
					č
					ž
					ç
C5	MAN D 695	-8.433	43.909 133.278		С
	MAN D 695		44.609 133.750	1.00188.51	С
					ŏ
03				1.00198.31	0
04	MAN D 695	-7.387	42.058 132.152	1.00194.30	0
05	MAN D 695	-9 447	44 936 133 148	1 00188 38	0
					0
Cl	MAN D 696	-13.765	38.597 130.905	1.00160.20	С
C2	MAN D 696	-12.677	37.513 131.050	1.00162.12	С
C3	MAN D 696	-11 913	37 332 129 740	1 00161 16	С
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C5	MAN D 696	-13.914	38.170 128.510	1.00158.37	С
C6	MAN D 696	-14.969	37.903 127.452	1.00154.56	С
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03	MAN D 696	-10.987	36.268 129.885	1.00161.13	0
O3 O4					
04	MAN D 696 MAN D 696	-10.987 -12.184	36.268 129.885 36.909 127.386	1.00161.13 1.00155.90	0 0
04 05	MAN D 696 MAN D 696 MAN D 696	-10.987 -12.184 -14.606	36.268 129.885 36.909 127.386 38.341 129.770	1.00161.13 1.00155.90 1.00160.32	0 0 0
04 05 06	MAN D 696 MAN D 696 MAN D 696 MAN D 696	-10.987 -12.184 -14.606 -15.435	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516	1.00161.13 1.00155.90 1.00160.32 1.00146.85	0 0 0
04 05 06 C1	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37	0 0 0 0 0
04 05 06	MAN D 696 MAN D 696 MAN D 696 MAN D 696	-10.987 -12.184 -14.606 -15.435	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516	1.00161.13 1.00155.90 1.00160.32 1.00146.85	0 0 0 0 0
04 05 06 C1 C2	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71	0 0 0 0 0
04 05 06 C1 C2 C3	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37	0 0 0 0 0 0
04 05 06 C1 C2 C3 C4	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.189 -12.899 -12.596 -13.650	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25	0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4 C5	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25	0 0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.189 -12.899 -12.596 -13.650	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25	0 0 0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4 C5 C6	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.605 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00137.63 1.00140.83	0 0 0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4 C5 C6 C7	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 56.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.661	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00137.63 1.00140.83	0 0 0 0 0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4 C5 C6 C7	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00149.30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00139.25 1.00139.25 1.00140.83 1.00108.45 1.00108.45	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4 C5 C6 C7	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00149.30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.77 1.00139.25 1.00137.63 1.00140.83 1.00109.30 1.00108.45 1.00113.83 1.00113.83	00000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00140.83 1.00140.83 1.00109.30 1.00108.45 1.001132.54 1.00132.54	00000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 O4 O5	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00109.30 1.00108.45 1.00113.83 1.00135.54 1.00146.13 1.00146.13	00000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 O4 O5	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -13.650 -13.975 -15.186 -11.899 -10.593 -11.766 -12.541 -13.185 -14.285	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00108.45 1.00113.83 1.00113.83 1.00127.67 1.00146.11	00000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 O4 O5	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00139.25 1.00140.83 1.00109.30 1.00108.45 1.00113.83 1.00122.54 1.00146.13 1.00127.67	00000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 O4 O5	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -13.650 -13.975 -15.186 -11.899 -10.593 -11.766 -12.541 -13.185 -14.285	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00108.45 1.00113.83 1.00113.83 1.00127.67 1.00146.11	00000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 O4 O5 O6	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00140.83 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00146.13 1.00146.13 1.00147.67 1.00147.45	000000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 O4 O5 O6 O7 C1 C2	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 716 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00109.30 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.13 1.00127.67 1.00146.11 1.00107.45 1.00153.38	00000000000000000000000000000000000000
04 05 06 C1 C3 C4 C5 C6 C7 C8 N03 04 05 06 07 C1 C2	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 716 NAG E 716 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00146.11 1.00156.41	00000000000000000000000000000000000000
04 05 06 C1 C3 C4 C5 C6 C7 C82 O3 O4 O5 O6 O7 C1 C2 C3	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.11 -12.822 -14.007 -13.371 -14.210 -14.435	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00109.30 1.00108.45 1.00132.54 1.00146.13 1.00127.67 1.00146.11 1.00153.38 1.00156.41 1.00160.61 1.00163.56	000000000000000000000000000000000000000
04 05 06 C1 C3 C4 C5 C6 C7 C82 O3 O4 O5 O6 O7 C1 C2 C3	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.11 -12.822 -14.007 -13.371 -14.210 -14.435	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00146.11 1.00156.41	000000000000000000000000000000000000000
04 05 06 01 02 03 04 05 06 07 07 02 03 04 05 06 07 07 07 07 07 07 07 07 07 07 07 07 07	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.600 135.988 63.600 137.266 65.907 136.472	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00146.83 1.00109.30 1.00108.45 1.00113.83 1.00146.13 1.00127.67 1.00146.11 1.00163.38 1.00156.41 1.00163.56 1.00163.58	000000000000000000000000000000000000000
04 05 06 01 02 03 04 05 06 07 07 02 03 04 05 06 07 06 06 07 06 06 06 06 06 06 06 06 06 06 06 06 06	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.893 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.027 -13.371 -14.210 -14.435 -15.038 -15.038	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00109.30 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00127.67 1.00146.11 1.001053.38 1.00156.41 1.00160.61 1.00168.89 1.00156.19	000000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 04 05 06 07 C1 C2 C3 C4 C5 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.764 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.260 -12.189	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 56.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 67.768 134.965	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00140.83 1.00109.30 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.13 1.00127.67 1.00146.13 1.00153.38 1.00156.41 1.00160.61 1.00163.56 1.00156.19 1.00156.19 1.00152.83	000000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 03 04 05 06 07 C1 C2 C3 C4 C5 C6 C7 C7 C7 C7 C7 C8 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.2107 -14.435 -15.038 -15.038 -15.260 -12.189 -12.169	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 133.2547 69.803 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.718 61.768 134.965 60.299 134.580	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00140.83 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00146.13 1.00127.67 1.00146.11 1.00160.61 1.00153.38 1.00150.41 1.00163.56 1.00152.83 1.00152.83 1.00152.83 1.00152.83	000000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 O3 04 05 06 07 C1 C2 C3 C4 C5 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.2107 -14.435 -15.038 -15.038 -15.260 -12.189 -12.169	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 56.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 67.768 134.965	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00140.83 1.00109.30 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.13 1.00127.67 1.00146.13 1.00153.38 1.00156.41 1.00160.61 1.00163.56 1.00156.19 1.00156.19 1.00152.83	000000000000000000000000000000000000000
04 05 06 C1 C2 C3 C4 C5 C6 C7 C8 N2 03 04 05 06 07 C1 C2 C3 C4 C5 C6 C7 C7 C8 N2 C9 C9 C9 C9 C9 C9 C9 C9 C9 C9 C9 C9 C9	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.35 -15.260 -12.169 -13.278	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00107.45 1.00153.38 1.00156.41 1.00163.56 1.00158.89 1.00156.19 1.00150.30 1.00150.30 1.00150.30 1.00150.30	000000000000000000000000000000000000000
04 05 06 06 02 03 04 05 06 07 01 02 03 04 05 06 07 07 01 02 03 04 05 06 07 07 07 07 07 07 07 07 07 07 07 07 07	MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.7641 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.038 -15.260 -12.189 -12.169 -13.278 -13.568	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00140.83 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00161.33 1.00153.38 1.00156.41 1.00160.61 1.00153.89 1.00156.19 1.00152.83 1.00154.14 1.00162.37	000000000000000000000000000000000000000
04 05 06 06 1 C2 C3 C4 C5 C6 C7 C8 N2 03 04 05 06 07 C1 C2 C3 C4 C5 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.213 138.816	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00137.63 1.00109.30 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00127.67 1.00146.11 1.00153.38 1.00156.41 1.00163.56 1.00158.89 1.00152.83 1.00152.83 1.00150.30 1.00152.83 1.00150.30 1.00162.37 1.00162.37 1.00163.10	000000000000000000000000000000000000000
04 05 06 06 07 03 04 05 06 07 07 06 07 07 06 07 07 08 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.215 -14.435 -15.038 -15.260 -12.169 -13.278 -13.568 -15.317 -14.168	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.600 137.263 65.147 137.669 65.907 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.207 135.320	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00127.67 1.00146.13 1.00153.38 1.00156.41 1.00163.56 1.00156.19 1.00152.83 1.00152.83 1.00154.14 1.00163.71 1.00163.71 1.00163.71	000000000000000000000000000000000000000
04 05 06 06 1 C2 C3 C4 C5 C6 C7 C8 N2 03 04 05 06 07 C1 C2 C3 C4 C5 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.213 138.816 65.807 135.320 67.940 135.721	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00137.63 1.00109.30 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00127.67 1.00146.11 1.00153.38 1.00156.41 1.00163.56 1.00158.89 1.00152.83 1.00152.83 1.00150.30 1.00152.83 1.00150.30 1.00162.37 1.00162.37 1.00163.10	000000000000000000000000000000000000000
04 05 06 06 07 03 04 05 06 07 07 06 07 07 06 07 07 08 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.020 -14.3371 -14.210 -14.438 -15.260 -12.169 -13.371 -14.210 -14.4168 -15.317 -14.168	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.600 137.263 65.147 137.669 65.907 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.207 135.320	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00127.67 1.00146.13 1.00153.38 1.00156.41 1.00163.56 1.00156.19 1.00152.83 1.00152.83 1.00154.14 1.00163.71 1.00163.71 1.00163.71	000000000000000000000000000000000000000
04 05 06 06 07 07 08 08 07 07 01 02 03 04 05 06 07 07 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 56.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.289 138.314 65.213 138.816 65.807 135.320 67.940 135.721 62.491 134.683	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00139.25 1.00140.83 1.00109.30 1.00109.30 1.00146.13 1.0012.54 1.00146.13 1.0012.54 1.00153.38 1.00156.19 1.00163.56 1.00156.19 1.00156.19 1.00152.83 1.00156.30 1.00156.30 1.00152.83 1.00152.83 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30 1.00155.30	000000000000000000000000000000000000000
04 05 06 06 07 07 03 04 05 06 07 07 02 03 04 05 06 07 07 07 07 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.260 -12.189 -13.278 -13.568 -15.317 -14.168 -16.102 -11.235 -14.704	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.807 135.320 67.940 135.721 62.491 134.683 65.807 135.320	1.00161.13 1.00155.590 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00140.83 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00146.13 1.00146.13 1.00152.67 1.00160.61 1.00163.56 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00154.14 1.00163.30 1.00152.83 1.00155.30 1.00155.30 1.00155.54 1.00155.54 1.00155.54 1.00152.15 1.00159.54	000000000000000000000000000000000000000
04 05 06 06 07 02 03 04 05 06 07 06 07 06 07 08 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.599 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.822 -14.007 -13.371 -14.210 -14.435 -15.260 -12.189 -12.169 -12.169 -13.278 -13.568 -15.317 -14.168 -16.102 -11.235 -14.704 -15.550	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.4142 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 134.580 62.212 135.582 62.989 134.580 62.212 135.582 62.989 134.580 65.213 138.816 65.807 135.320 67.940 135.721 62.491 134.683 65.389 140.058 66.323 140.058	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00167.45 1.00153.38 1.00156.41 1.00163.56 1.00158.89 1.00156.19 1.00156.19 1.00150.30 1.00150.30 1.00154.14 1.00162.37 1.00175.54 1.00155.54 1.00155.54	000000000000000000000000000000000000000
04 05 06 06 07 03 04 05 06 07 07 01 02 03 04 05 06 07 07 01 02 03 04 05 06 07 07 07 07 07 07 07 07 07 07 07 07 07	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -14.3371 -14.210 -14.435 -15.038 -15.260 -12.189 -12.169 -13.278 -13.568 -15.317 -14.168 -16.102 -11.235 -14.704 -15.550 -14.922	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.213 138.816 65.807 135.320 67.940 135.721 62.491 134.683 65.389 140.058 66.323 140.967 66.431 142.375	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00139.25 1.00140.83 1.00109.30 1.00108.45 1.00113.83 1.00146.13 1.00127.67 1.00146.11 1.00163.58 1.00156.19 1.00156.19 1.00156.19 1.00152.83 1.00156.30 1.00154.14 1.00153.30 1.00156.19 1.00154.14 1.00155.30 1.00156.19 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00156.30 1.00159.30 1.00159.30	000000000000000000000000000000000000000
04 05 06 06 07 02 03 04 05 06 07 06 07 06 07 08 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.599 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.822 -14.007 -13.371 -14.210 -14.435 -15.260 -12.189 -12.169 -12.169 -13.278 -13.568 -15.317 -14.168 -16.102 -11.235 -14.704 -15.550	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.4142 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 134.580 62.212 135.582 62.989 134.580 62.212 135.582 62.989 134.580 65.213 138.816 65.807 135.320 67.940 135.721 62.491 134.683 65.389 140.058 66.323 140.058	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00167.45 1.00153.38 1.00156.41 1.00163.56 1.00158.89 1.00156.19 1.00156.19 1.00150.30 1.00150.30 1.00154.14 1.00162.37 1.00175.54 1.00155.54 1.00155.54	000000000000000000000000000000000000000
04 05 06 06 07 07 08 08 00 07 07 02 03 04 05 06 07 07 02 03 04 05 06 07 07 07 07 07 07 07 07 07 07 07 07 07	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038 -15.038	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.807 135.520 67.940 135.721 65.807 135.320 67.940 135.721 62.491 134.683 65.389 140.058 66.323 140.967 66.431 142.375 65.041 142.375	1.00161.13 1.00155.590 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00137.63 1.00140.83 1.00109.30 1.00108.45 1.00132.54 1.00146.13 1.00127.67 1.00146.13 1.00153.38 1.00156.41 1.00153.38 1.00156.41 1.00163.56 1.00152.83 1.00152.83 1.00155.54 1.00155.54 1.00155.54 1.00155.54 1.00152.15 1.00179.54 1.00179.54 1.00179.99 1.00179.99	000000000000000000000000000000000000000
04 05 06 06 07 03 04 05 06 07 06 07 06 07 06 07 07 08 08 09 09 09 09 09 09 09 09 09 09 09 09 09	MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717 MAN E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.215 -14.235 -15.038 -15.260 -12.189 -13.278 -13.568 -15.317 -14.168 -16.102 -11.235 -14.704 -15.550 -14.922 -14.692 -13.811	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.600 137.263 65.147 137.669 65.907 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.213 138.816 65.807 135.721 62.491 134.683 65.807 135.721 62.491 134.683 65.323 140.967 66.323 140.967 66.323 140.967 66.323 140.967 66.323 140.967 66.323 140.967 66.321 142.953 64.185 141.935	1.00161.13 1.00155.90 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00127.67 1.00146.13 1.00152.67 1.00160.61 1.00163.56 1.00158.89 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00153.30 1.00152.83 1.00153.30 1.00152.83 1.00153.30 1.00152.83 1.00153.30 1.00153.30 1.00153.30 1.00153.30 1.00154.14 1.00163.56 1.00155.54 1.00179.54 1.00179.54 1.00179.54 1.00179.64 1.00179.64 1.00179.99 1.00181.96	000000000000000000000000000000000000000
04 05 06 06 07 05 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 06 07 06 06 06 06 06 06 06 06 06 06 06 06 06	MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717 MAN E 717 MAN E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.260 -12.189 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -13.568 -15.378 -14.768 -15.550 -14.922 -14.602 -13.811 -13.514	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.213 138.816 65.807 135.320 67.940 135.721 62.491 134.683 65.389 140.058 66.323 140.967 66.431 142.375 65.041 142.955 64.185 141.935 64.185 141.935	1.00161.13 1.00155.59 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00167.45 1.00153.38 1.00156.41 1.00163.56 1.00158.89 1.00156.19 1.00156.19 1.00156.30 1.00156.30 1.00156.30 1.00155.54 1.00159.30 1.00159.30 1.00155.54 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30	000000000000000000000000000000000000000
04 05 06 06 07 07 01 02 03 04 05 06 07 07 02 03 04 05 06 07 07 07 07 08 08 08 09 07 07 07 07 07 07 07 07 07 07 07 07 07	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.038 -15.038 -15.2317 -14.168 -16.102 -13.317 -14.168 -16.102 -14.922 -14.602 -13.811 -13.514 -16.895	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.598 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.718 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 65.807 135.580 62.212 135.582 62.298 138.314 65.213 138.816 65.807 135.320 67.940 135.721 66.431 142.953 64.185 141.935 66.323 140.967 66.431 142.953 64.185 141.935 62.757 142.404 65.853 141.935	1.00161.13 1.00155.30 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00139.25 1.00139.30 1.00109.30 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00127.67 1.00146.13 1.00127.67 1.00146.11 1.00153.38 1.00156.41 1.00150.61 1.00153.38 1.00156.19 1.00152.83 1.00156.19 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00159.30 1.00159.30 1.00159.30 1.00159.41 1.00179.99 1.00179.99 1.00181.96 1.00178.44	
04 05 06 06 07 05 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 07 06 06 07 06 06 06 06 06 06 06 06 06 06 06 06 06	MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717 MAN E 717 MAN E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.260 -12.189 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -12.169 -13.568 -15.378 -14.768 -15.550 -14.922 -14.602 -13.811 -13.514	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 133.2547 69.803 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.988 63.690 137.263 65.147 137.669 65.907 136.718 61.768 134.965 60.299 134.580 62.212 135.582 62.989 138.314 65.213 138.816 65.807 135.721 62.491 134.683 65.807 135.721 62.491 134.683 65.389 140.965 66.431 142.375 66.431 142.375 65.041 142.953 64.185 141.935 62.757 142.404 65.853 141.057 67.148 143.255	1.00161.13 1.00155.59 1.00160.32 1.00146.85 1.00120.37 1.00133.37 1.00139.25 1.00139.25 1.00146.83 1.00109.30 1.00108.45 1.00113.83 1.00127.67 1.00146.11 1.00167.45 1.00153.38 1.00156.41 1.00163.56 1.00158.89 1.00156.19 1.00156.19 1.00156.30 1.00156.30 1.00156.30 1.00155.54 1.00159.30 1.00159.30 1.00155.54 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30 1.00159.30	000000000000000000000000000000000000000
04 05 06 06 07 07 01 02 03 04 05 06 07 07 02 03 04 05 06 07 07 07 07 08 08 08 09 07 07 07 07 07 07 07 07 07 07 07 07 07	MAN D 696 MAN D 696 MAN D 696 MAN D 696 NAG E 715 NAG E 716 NAG E 717 MAN E 717	-10.987 -12.184 -14.606 -15.435 -13.182 -12.899 -12.596 -13.650 -13.975 -15.186 -11.829 -10.593 -11.766 -12.541 -13.185 -14.285 -16.119 -12.822 -14.007 -13.371 -14.210 -14.435 -15.038 -15.038 -15.038 -15.2317 -14.168 -16.102 -13.317 -14.168 -16.102 -14.922 -14.602 -13.811 -13.514 -16.895	36.268 129.885 36.909 127.386 38.341 129.770 36.565 127.516 66.020 129.888 67.060 130.965 66.358 132.294 65.298 132.649 64.405 131.442 63.543 131.714 69.189 130.601 69.942 130.149 67.865 130.552 67.322 133.330 64.484 133.758 65.206 130.280 64.223 132.547 69.803 130.991 64.457 134.873 63.602 135.598 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.472 67.379 136.718 63.690 137.263 65.147 137.669 65.907 136.472 67.379 136.718 65.807 135.580 62.212 135.582 62.298 138.314 65.213 138.816 65.807 135.320 67.940 135.721 66.431 142.953 64.185 141.935 66.323 140.967 66.431 142.953 64.185 141.935 62.757 142.404 65.853 141.935	1.00161.13 1.00155.30 1.00146.85 1.00120.37 1.00123.71 1.00133.37 1.00139.25 1.00139.25 1.00139.30 1.00109.30 1.00109.30 1.00108.45 1.001132.54 1.00146.13 1.00127.67 1.00146.13 1.00127.67 1.00146.11 1.00153.38 1.00156.41 1.00150.61 1.00153.38 1.00156.19 1.00152.83 1.00156.19 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00152.83 1.00159.30 1.00159.30 1.00159.30 1.00159.41 1.00179.99 1.00179.99 1.00181.96 1.00178.44	
	C7 C8 N2 O3 O4 O5 O6 O7 C1 C2 C3 C4 C5 C6 O2 O3 O4 O5 O6 O6 O7 C1 C2 C3 C4 C5 C6 O2 C3 C6 C6 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7 C7	C7 NAG D 693 C8 NAG D 693 N2 NAG D 693 O3 NAG D 693 O4 NAG D 693 O5 NAG D 693 O7 NAG D 693 C1 MAN D 694 C2 MAN D 694 C3 MAN D 694 C4 MAN D 694 C5 MAN D 694 C6 MAN D 694 O2 MAN D 694 O3 MAN D 694 O4 MAN D 694 O5 MAN D 695 C4 MAN D 695 C2 MAN D 695 C3 MAN D 695 C4 MAN D 695 C5 MAN D 695 C6 MAN D 695 C6 MAN D 695 C7 MAN D 695 C8 MAN D 695 C9 MAN D 695 C9 MAN D 695 C1 MAN D 695 C1 MAN D 695 C2 MAN D 695 C3 MAN D 695 C4 MAN D 695 C5 MAN D 695 C6 MAN D 695 C6 MAN D 695 C7 MAN D 695 C8 MAN D 695 C9 MAN D 695 C1 MAN D 696 C1 MAN D 696 C2 MAN D 696 C3 MAN D 696 C4 MAN D 696 C5 MAN D 696 C6 MAN D 696 C6 MAN D 696 C7 MAN D 696 C7 MAN D 696 C8 MAN D 696 C9 MAN D 696 C9 MAN D 696 C9 MAN D 696 C9 MAN D 696	C7 NAG D 693 -18.788 C8 NAG D 693 -18.348 N2 NAG D 693 -17.917 O3 NAG D 693 -16.069 O4 NAG D 693 -16.069 O5 NAG D 693 -19.460 O6 NAG D 693 -17.872 O7 NAG D 693 -19.902 C1 MAN D 694 -15.378 C2 MAN D 694 -14.749 C3 MAN D 694 -12.833 C5 MAN D 694 -12.833 C5 MAN D 694 -12.833 C5 MAN D 694 -13.537 C6 MAN D 694 -12.833 C5 MAN D 694 -13.537 C6 MAN D 694 -12.833 C5 MAN D 695 -10.712 C2 MAN D 695 -9.530 C4 MAN D 695 -9.530 C4 MAN D 695 -9.530 C4 MAN D 695 -8.207 C5 MAN D 695 -9.291 O4 MAN D 695 -7.185 O2 MAN D 695 -7.387 O5 MAN D 695 -9.291 O4 MAN D 695 -9.291 O4 MAN D 695 -7.387 O5 MAN D 695 -9.291 O4 MAN D 695 -7.387 O5 MAN D 695 -9.291 O4 MAN D 695 -7.387 O5 MAN D 695 -9.291 O4 MAN D 695 -7.387 O5 MAN D 696 -13.765 C2 MAN D 696 -13.765 C2 MAN D 696 -13.765 C2 MAN D 696 -13.914 C6 MAN D 696 -13.914	C7 NAG D 693	C7 NAG D 693

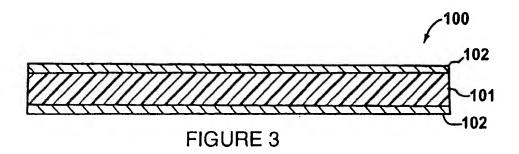
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HETATM	6383	06	MAN E 717	-13.076	61.944	141.331	1.00170.00	0
HETATM	6384	C1	NAG F 639	32.119	83.029	85.947	1.00126.87	С
HETATM	6385	C2	NAG F 639	31.123	83.873	85.146	1.00132.58	C
HETATM	6386	C3	NAG F 639	31.850	85.065	84.522	1.00142.72	. с
HETATM	6387	C4	NAG F 639	32.540	85.843	85.573	1.00144.73	C
HETATM	6388	C5	NAG F 639	33.477	84.929	86.479	1.00141:68	С
								C
HETATM	6389	C6	NAG F 639	33.956	85.709	87.677	1.00145.51	C
HETATM		C7	NAG F 639	29.211	83.100	83.912	1.00114.73	ā
								С
HETATM	6391	C8	NAG F 639	28.655	82.251	82.789	1.00113.10	C
		N2		30.525		84.096		
HETATM			NAG F 639				1.00122.92	N
HETATM	6393	03	NAG F 639	30.894	85.933	83.937	1.00153.03	0
UPTROM	6304	04	NAG F 639			84.919	1.00152.34	
HETATM				33.530			1.00152.34	0
HETATM	6395	05	NAG F 639	32.688	83.834	86.990	1.00133.39	0
HETATM		06	NAG F 639	33.072		87.906	1.00154.44	
								0
HETATM	6397	07	NAG F 639	28.449	83.760	84.617	1.00103.75	0
HETATM	6300	C1	NAG F 640	33.137	88.089	84.918	1.00160.26	Ċ
								C
HETATM	6399	C2	NAG F 640	34.360	88.991	84.918	1.00165.79	Ċ
HETATM	6400	C3	NAG F 640	33.874	90.433	84.975	1.00166.89	С
								C
HETATM	6401	C4	NAG F 640	32.916	90.720	83.827	1.00166.57	Ċ
HETATM	6402	C5	NAG F 640	31.829	89.650	83.659	1.00162.73	Ċ
								_
HETATM	6403	C6	NAG F 640	31.206	89.777	82.285	1.00163.21	С
HETATM	6404	C7	NAG F 640	36.509	88.517	85.907	1.00168.89	C
								Ţ
HETATM	0405	C8	NAG F 640	37.313	88.220	87.164	1.00167.41	С
HETATM	6406	N2	NAG F 640	35.201	88.697	86.063	1.00169.98	N
HETATM		03	NAG F 640	34.979	91.324	84.909	1.00166.81	0
HETATM	6408	04	NAG F 640	32.271	91.975	84.072	1.00172.21	0
HETATM		05	NAG F 640		88.320	83.730	1.00159.82	0
HETATM	6410	06	NAG F 640	32.210	89.775	81.279	1.00163.84	0
		07						
HETATM		-	NAG F 640	37.070	88.569	84.812	1.00166.29	0
HETATM	6412	C1	MAN F 641	32.546	92.988	83.167	1.00180.23	С
								_
HETATM		C2	MAN F 641	31.336	93.932	83.144	1.00181.77	С
HETATM	6414	C3	MAN F 641	31.609	95.378	82.683	1.00183.44	С
HETATM		C4	MAN E 641					č
			MAN F 641	33.058	95.856	82.878	1.00185.67	C
HETATM	6416	C5	MAN F 641	34.077	94.730	82.765	1.00188.14	c
HETATM	6417	C6	MAN F 641	35.503	95.137	83.126	1.00190.39	С
HETATM	6418	02	MAN F 641	30.757	93.965	84.446	1.00182.75	0
HETATM	6419	03	MAN F 641	30.773	96.214	83.495	1.00186.38	0
HETATM	6420	04	MAN F 641	33.357	96.858	81.921	1.00182.05	0
HETATM	6421	05	MAN F 641	33.703	93.676	83.648	1.00185.32	0
HETATM	6422	06	MAN F 641	36.496	94.413	82.345	1.00194.64	0
HETATM	6423	C1	MAN F 642	29.936	97.176	82.914	1.00189.51	С
HETATM	6424	C2	MAN F 642	30 <i>.777</i>	98.175	82.097	1.00190.77	c
HETATM	6425	C3	MAN F 642	31.732	98.953	83.014	1.00193.36	C
								č
HETATM	0420	C4	MAN F 642	31.007	99.548	84.231	1.00196.45	Ċ
HETATM	6427	C5	MAN F 642	30.138	98.480	84.910	1.00197.04	C
HETATM		C6	MAN F 642		98.985	86.072	1.00198.31	ċ
				29.298				
HETATM	6429	02	MAN F 642	29.917	99.076	81.421	1.00189.27	0
HETATM	6430	03	MAN F 642	32.344	99.994	82.278	1.00193.29	0
HETATM	6431	04	MAN F 642	31.959	100.047	85.159	1.00198.31	0
HETATM	6432	05	MAN F 642	29.244	97.892	83.935	1.00193.89	0
HETATM		06	MAN F 642	29.306		86.145	1.00198.31	0
HETATM	6434	C1	MAN F 643	35.990	93.378	81.534	1.00198.31	С
HETATM		C2	MAN F 643	36.782		81.772	1.00198.31	Ċ
					92.081			Ç
HETATM	6436	C3	MAN F 643	38.190	92.201	81.187	1.00198.31	C
HETATM		C4	MAN F 643	38.117	92.592	79.710	1.00197.82	Ċ
HETATM		C5	MAN F 643	37.307	93.883	79.557	1.00196.82	С
HETATM	6439	C6	MAN F 643	37.111	94.291	78.111	1.00194.00	С
HETATM		02					1.00198.31	ŏ
UEINIM	0440	UZ	MAN F 643	36.100	90.996	81.162	1.00190.31	U
HETATM	6441	03	MAN F 643	38.872	90.965	81.327	1.00196.63	0
HETATM		04	MAN F 643	39.427	92.789	79.206	1.00194.91	Ō
HETATM	6443	05	MAN F 643	35.992	93.719	80.139	1.00198.31	0
HETATM		06	MAN F 643	35.953	93.686	77.550	1.00188.74	0
HETATM		C1	FUC F 644	32.433	86.921	89.162	1.00159.25	С
HETATM	6446	C2	FUC F 644	33.063	85.961	90.188	1.00160.27	C
HETATM		C3	FUC F 644			90.381	1.00161.26	c c
				34.526	86.346			C
HETATM	6448	C4	FUC F 644	34.602	87.805	90.850	1.00162.65	С
HETATM		C5	FUC F 644	33.873	88.703	89.841	1.00161.15	C
								_
HETATM	6450	C6	FUC F 644	33.817	90.159	90.238	1.00159.96	C
HETATM	6451	02	FUC F 644	32.956	84.618	89.743	1.00160.19	0
HETATM		03	FUC F 644	35.136	85.487	91.330	1.00161.08	0
HETATM	6453	04	FUC F 644	33.975	87.913	92.120	1.00166.93	0
HETATM		05	FUC F 644	32.513	88.244	89.671	1.00159.60	0
HETATM	6455	C1	NAG G 692	27.367	69.699	61.043	1.00 81.28	С
HETATM		C2	NAG G 692		68.145	60.977	1.00 89.99	c
				27.349				C
HETATM	6457	C3	NAG G 692	26.829	67.603	59.625	1.00 91.14	С
HETATM		C4	NAG G 692	25.533	68.296	59.204	1.00 89.04	Ċ
								Ē
HETATM		C5	NAG G 692	25.833	69.796	59.186	1.00 83.33	C
HETATM	6460	C6	NAG G 692	24.698	70.656	58.666	1.00 86.45	0000
								_
HETATM		C7	NAG G 692	29.018	67.014	62.319	1.00101.90	С
HETATM	6462	C8	NAG G 692	30.453	66.530	62.450	1.00102.83	С
		-						•

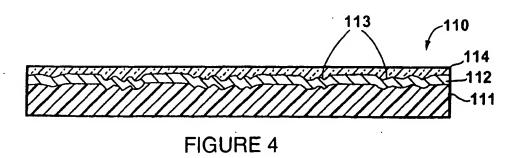
<b>HETATM 6463</b>	N2 NAG G 692	28.695 67	.645 61.192	1.00 97.33	N
	03 NAG G 692				
HETATM 6464			.201 59.704	1.00 94.88	0
HETATM 6465	04 NAG G 692		.837 57.887	1.00 95.09	0
HETATM 6466	05 NAG G 692	26.146 70	.251 60.521	1.00 73.85	0
HETATM 6467	06 NAG G 692		.092 58.975	1.00 86.10	0
HETATM 6468	07 NAG G 692	28.219 66	.809 63.233	1.00101.45	0
HETATM 6469	C1 NAG G 693		.233 57.756	1.00 98.64	С
HETATM 6470	C2 NAG G 693		.464 56.335	1.00 95.54	Ċ
HETATM 6471	C3 NAG G 693		.769 56.169	1.00 98.16	č
HETATM 6472	C4 NAG G 693		.297 56.580	1.00105.51	C
HETATM 6473	C5 NAG G 693		.103 57.934	1.00108.87	С
HETATM 6474	C6 NAG G 693	23.069 63	.640 58.214	1.00113.67	С
HETATM 6475	C7 NAG G 693	24.226 69	.586 55.632	1.00 93.26	С
<b>HETATM 6476</b>	C8 NAG G 693	24.005 71	.065 55.377	1.00 87.73	С
HETATM 6477	N2 NAG G 693		.884 56.070	1.00 91.40	N
HETATM 6478	03 NAG G 693		.851 54.818	1.00 87.79	Ö
HETATM 6479	04 NAG G 693		.776 56.677	1.00114.16	ŏ
				1.00102.56	ŏ
HETATM 6480	05 NAG G 693		.819 57.970		
HETATM 6481	06 NAG G 693		.779 57.263	1.00119.18	Ō
<b>HETATM 6482</b>	07 NAG G 693	25.340 69	.094 55.434	1.00101.16	0
HETATM 6483	C1 MAN G 694	20.286 63	.958 55.639	1.00119.37	С
<b>HETATM 6484</b>	C2 MAN G 694	19.098 63	.069 56.066	1.00121.55	С
HETATM 6485	C3 MAN G 694		.208 54.854	1.00123.62	С
HETATM 6486	C4 MAN G 694		.081 53.662	1.00129.09	č
				1.00123.03	Č
HETATM 6487	C5 MAN G 694				
HETATM 6488	C6 MAN G 694		.996 52.274	1.00141.14	C
НЕТАТМ 6489	02 MAN G 694		.876 56.409	1.00125.53	0
<b>HETATM 6490</b>	O3 MAN G 694		.211 55.108	1.00113.48	0
HETATM 6491	04 MAN G 694	18.152 62	.263 52.530	1.00136.46	0
HETATM 6492	05 MAN G 694	19.915 64	.791 54.532	1.00121.09	0
HETATM 6493	06 MAN G 694		.793 51.893	1.00154.48	0
HETATM 6494	C1 MAN G 695		.147 54.190	1.00113.74	č
	C2 MAN G 695		.835 54.818	1.00111.77	č
HETATM 6495				1.00111.77	Č
HETATM 6496	C3 MAN G 695		.337 55.863		
HETATM 6497	C4 MAN G 695		.266 55.265	1.00117.80	c
HETATM 6498	C5 MAN G 695		.626 54.673	1.00117.97	Ç
HETATM 6499	C6 MAN G 695		.749 54.057	1.00117.01	Ç
нетатм 6500	02 MAN G 695		.856 53.796	1.00 96.60	0
HETATM 6501	O3 MAN G 695	17.970 57	.052 56.331	1.00120.40	0
<b>HETATM 6502</b>	04 MAN G 695	20.700 57	.925 56.277	1.00120.93	0
<b>HETATM 6503</b>	O5 MAN G 695	19.144 59	.971 53.668	1.00117.19	0
<b>HETATM 6504</b>	06 MAN G 695	21.834 58	.594 53.308	1.00113.39	0
HETATM 6505	C1 MAN G 696		.898 51.143	1.00164.32	C
HETATM 6506	C2 MAN G 696		.519 50.365	1.00166.62	Ċ
	C3 MAN G 696		.326 51.285	1.00171.12	č
HETATM 6507			.232 52.282	1.00175.18	č
HETATM 6508	C4 MAN G 696				Ċ
HETATM 6509	C5 MAN G 696		.476 52.948	1.00173.34	
HETATM 6510	C6 MAN G 696		.358 53.827	1.00172.72	C
HETATM 6511	02 MAN G 696		.356 49.314	1.00163.60	0
HETATM 6512	03 MAN G 696		.128 50.491	1.00169.59	0
HETATM 6513	04 MAN G 696		.702 53.294	1.00179.94	0
<b>HETATM 6514</b>	05 MAN G 696	19.229 67	.884 51.939	1.00170.02	0
HETATM 6515	06 MAN G 696	19.108 70	.684 53.320	1.00172.71	0
HETATM 6516	C1 NAG H 715	13.640 83	.037 66.153	1.00115.84	C
<b>HETATM 6517</b>	C2 NAG H 715	12.944 84	.348 65.800	1.00117.74	С
HETATM 6518	C3 NAG H 715		.533 64.279	1.00130.57	С
HETATM 6519	C4 NAG H 715		.079 63.468	1.00140.47	č
HETATM 6520	C5 NAG H 715		.839 64.066	1.00137.92	Ċ
HETATM 6521	C6 NAG H 715		.604 63.466		č
			.294 67.210	1.00 95.61	č
HETATM 6522	C7 NAG H 715				č
HETATM 6523	C8 NAG H 715		.192 67.743 .340 66.371	1.00 87.49	
HETATM 6524	N2 NAG H 715			1.00105.35	N
HETATM 6525	03 NAG H 715		.904 63.987	1.00126.41	0
<b>HETATM 6526</b>	04 NAG H 715		.755 62.132	1.00155.63	0
<b>HETATM 6527</b>	05 NAG H 715		.978 65.491	1.00126.15	0
HETATM 6528	06 NAG H 715	17.064 82	.210 64.447	1.00143.48	0
<b>HETATM 6529</b>	07 NAG H 715	11.952 86	.224 67.555	1.00 91.56	0
HETATM 6530	C1 NAG H 716		.450 61.069	1.00170.24	С
<b>HETATM 6531</b>	C2 NAG H 716		.462 59.946	1.00178.62	С
HETATM 6532	C3 NAG H 716		.201 58.720	1.00182.32	Ċ
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HETATM 6534	C5 NAG H 716		.201 59.513	1.00181.47	č
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			.194 60.478	1.00183.72	č
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	05 NAG H 716		.413 60.646	1.00172.88	
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                   MAN H 717
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HETATM 6553
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89.214
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HETATM 6584
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FIGURE 2







## FIGURE 5

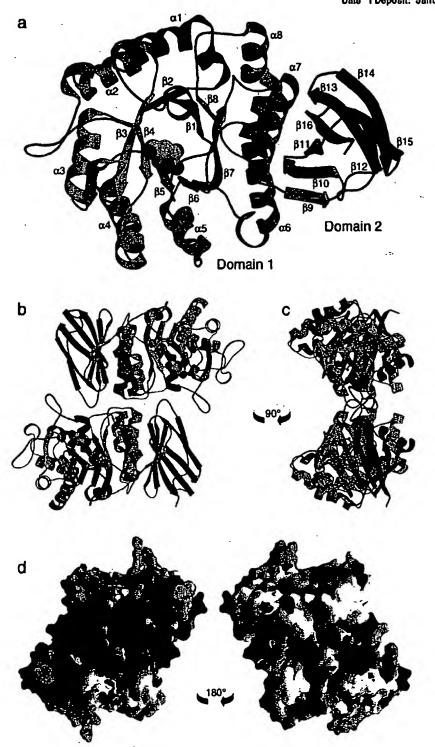


FIGURE 6 BEST AVAILABLE COPY

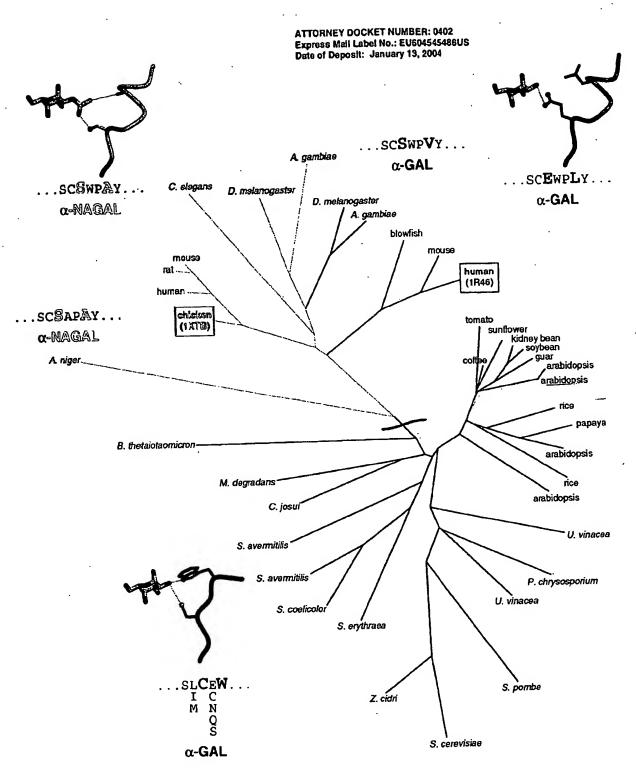


FIGURE 7

ATTORNEY DOCKET NUMBER: 0402 Express Mail Label No.: EU604545486US Date of Deposit: January 13, 2004

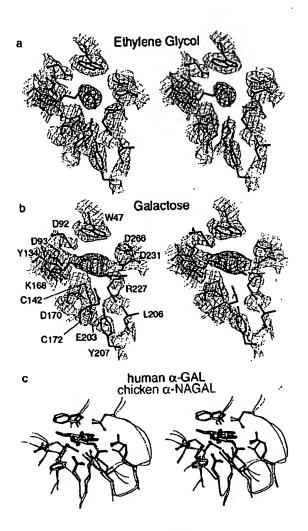
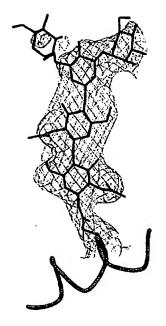
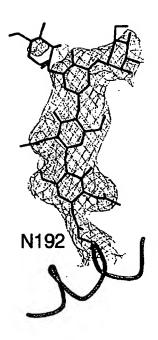


FIGURE 8.

ATTORNEY DOCKET NUMBER: 0402 Express Mail Label No.: EU604545486US Date of Deposit: January 13, 2004

# FIGURE 9





## FIGURE 10

#### APPLICATION DATA SHEET FORM

#### **Inventor Information**

Inventor One Given Name::

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City::

State or Province::

Postal or Zip Code:: Citizenship Country::

Inventor Two Given Name::

Family Name::

Postal Address Line One::

City::

State or Province:: Postal or Zip Code::

Citizenship Country::

Inventor Three Given Name::

Family Name::

Postal Address Line One::

City::

State or Province::

Postal or Zip Code::

Citizenship Country::

Inventor Four Given Name::

Family Name::

Postal Address Line One::

City::

State or Province:: Postal or Zip Code::

Citizenship Country::

Inventor Five Given Name::

Family Name::

Postal Address Line One::

City::

State or Province::

Postal or Zip Code::

Citizenship Country::

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David N.

Garboczi

Gaithersburg

Maryland

20877

US

Richard F.

Selden

Wellesley

Massachusetts

02482

US

Douglas A.

Treco

Arlington

Massachusetts

02476

US

Michael W.

Heartlein

Boxborough

Massachusetts

01719

US

Marianne

Borowski

Application Data Sheet Form

Page 2

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Citizenship Country::

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MA US

Country::

02139

Postal or Zip Code::

617-613-4255

Telephone One:: Telephone Two::

617-349-0200

Fax Number:

617-613-4020

Electronic Mail::

kandrikopoulos@tktx.com

#### **Application Information**

Title Line One::

CRYSTAL STRUCTURE OF HUMAN

 $\alpha$ -GALACTOSIDASE

Total Specification Sheets w/Claims::

39

Total Drawing Sheets::

91

Sequence Listing Sheets::

3 8

Claims::

Provisional

Application Type:: Docket Number::

0402

Date of deposit::

January 13, 2004

Express Mail No .::

EU604545486US

#### Representative Information

Name Line One::

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Cambridge

State or Province::

MA

Country::

Postal or Zip Code::

US 02139

Telephone One::

617-613-4255

### Application Data Sheet Form

Page 3

Telephone Two::

617-349-0200

Fax Number:

617-613-4020

Electronic Mail::

kandrikopoulos@tktx.com

## Representative Customer Number

## **Continuity Information**

### **Prior Foreign Applications**

Foreign Application One::

Filing Date::

Country::

Priority Claimed::

#### SEQUENCE LISTING

```
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       Garman, Scott C.
       Garboczi, David N.
       Selden, Richard F.
       Treco, Douglas A.
       Heartlein, Michael W.
       Borowski, Marianne
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Asp Asn Gly Leu Ala Arg Thr Pro Thr Met Gly Trp Leu His Trp Glu 35 40 45

Arg Phe Met Cys Asn Leu Asp Cys Gln Glu Glu Pro Asp Ser Cys Ile 50 60

Ser Glu Lys Leu Phe Met Glu Met Ala Glu Leu Met Val Ser Glu Gly 65 70 75 80

Trp Lys Asp Ala Gly Tyr Glu Tyr Leu Cys Ile Asp Asp Cys Trp Met  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ala Pro Gln Arg Asp Ser Glu Gly Arg Leu Gln Ala Asp Pro Gln Arg 100 105 110

Phe Pro His Gly Ile Arg Gln Leu Ala Asn Tyr Val His Ser Lys Gly 115 120 125

Leu Lys Leu Gly Ile Tyr Ala Asp Val Gly Asn Lys Thr Cys Ala Gly 130 135 140

Phe Pro Gly Ser Phe Gly Tyr Tyr Asp Ile Asp Ala Gln Thr Phe Ala 145  $\phantom{\bigg|}150\phantom{\bigg|}150\phantom{\bigg|}155\phantom{\bigg|}160\phantom{\bigg|}$ 

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Arg Thr Gly Arg Ser Ile Val Tyr Ser Cys Glu Trp Pro Leu Tyr Met 195 200 205

Trp Pro Phe Gln Lys Pro Asn Tyr Thr Glu Ile Arg Gln Tyr Cys Asn 210  $\,$  215  $\,$  220  $\,$ 

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Ser Ile Leu Asp Trp Thr Ser Phe Asn Gln Glu Arg Ile Val Asp Val 245 250 255

Ala Gly Pro Gly Gly Trp Asn Asp Pro Asp Met Leu Val Ile Gly Asn 260 265 270

Phe Gly Leu Ser Trp Asn Gln Gln Val Thr Gln Met Ala Leu Trp Ala 275 280 285

Ile Met Ala Ala Pro Leu Phe Met Ser Asn Asp Leu Arg His Ile Ser 290 295 300

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